

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0501	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 0501 Ryer Island	U	20.26						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	19.44	0.37	20.92	103.27%	0.33			
Trim / Thin Trees	1.26	0.02	1.34	6.62%				
Encroachments	0.01		0.01	0.05%	0.28	0.03		
Animal Control	0.52		0.52	2.57%				
Erosion / Bank Caving	0.06		0.06	0.30%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.26		0.26	1.28%				
DWR UCIP Field Study					0.54	0.09		
<i>LMA Totals:</i>	21.55	0.39	23.11	114.09%	1.15	0.12	0.00	0.00
Unit No. 01 Steamboat Slough RB	Overall Unit Rating	Total Unit Miles						
RD0501	U	6.71						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	4.97	0.37	6.45	96.19%	0.28			
Trim / Thin Trees	0.75	0.02	0.83	12.38%				
Encroachments	0.01		0.01	0.15%	0.19	0.02		
Animal Control	0.51		0.51	7.61%				
Erosion / Bank Caving	0.05		0.05	0.75%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.19		0.19	2.83%				
DWR UCIP Field Study					0.13	0.04		
<i>Unit Totals:</i>	6.48	0.39	8.04	119.90%	0.60	0.06	0.00	0.00
Unit No. 02 Cache Slough LB	Overall Unit Rating	Total Unit Miles						
RD0501	U	3.56						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	3.03		3.03	85.05%				
Trim / Thin Trees	0.03		0.03	0.84%				
Encroachments					0.09			
Animal Control	0.01		0.01	0.28%				
Erosion / Bank Caving	0.01		0.01	0.28%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.07		0.07	1.97%				
DWR UCIP Field Study					0.11	0.02		
<i>Unit Totals:</i>	3.15	0.00	3.15	88.42%	0.20	0.02	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 03 Miner Slough LB		Overall Unit Rating	Total Unit Miles						
RD0501		U	7.71						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	9.54		9.54	123.72%	0.03				
Trim / Thin Trees	0.45		0.45	5.84%					
Encroachments						0.01			
<i>Supplemental</i>									
DWR UCIP Field Study					0.22	0.02			
<i>Unit Totals:</i>	9.99	0.00	9.99	129.56%	0.25	0.03	0.00	0.00	

Unit No. 04 Sutter Slough RB		Overall Unit Rating	Total Unit Miles						
RD0501		U	2.28						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
<i>Earthen Levee</i>									
Vegetation	1.90		1.90	83.41%	0.02				
Trim / Thin Trees	0.03		0.03	1.32%					
<i>Supplemental</i>									
DWR UCIP Field Study					0.08	0.01			
<i>Unit Totals:</i>	1.93	0.00	1.93	84.73%	0.10	0.01	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 01 Steamboat Slough			Right	6.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/08/2015 - 04/08/2015		10/01/2015 - 10/01/2015	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Nicolas Zepeda RD 501		Nicolas Zepeda RD 501	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start		Rating **	A	Issue No.	57
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				o
					o
DWR ID	DWR_RD0501_01_f_2014_57				
Action/Comments					
Inspector Comments: District has the O&M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	58	
LM End		Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment					o
						o
DWR ID	DWR_RD0501_01_s_2012_58					
Action/Comments						
Inspector Comments: RD 501 has emergency supplies in storage.						

No Photos

LM Start		Rating **	A	Issue No.	59		
LM End		Issue Type +	Ma	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Flood Preparedness & Training				°		°
					°		°
DWR ID	DWR_RD0501_01_s_2012_59						
Action/Comments							
Inspector Comments: Crew members have been trained and are prepared for a flood.							

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.04	Rating **	M	Issue No.	66
LM End	0.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.254035 °	38.254035 °
				-121.601757 °	-121.601757 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44878
 DS_ID:21096
 EP_NO: 3635
 FS_HLM: 0.03
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Marker missing on waterward side--need to contact owner.
 FIELD_STRUCT_DESC: 2.5-inch steel conduit through the levee, 3.0 feet below the crown. Pole at landward toe. Rock revetment on waterward slope. (Permit No. 3635-1962) Abandoned and replaced by 3-inch conduit under Permit No. 5412 (1967).
 FS Date: 06/13/2013

LM Start	0.04	Rating **	M	Issue No.	66 (cont)
LM End	0.04	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_3555.jpg



Waterward shoulder--sign on waterward slope.

Photo 2 of 3 : UCIP_FA_2015_3556.jpg



Marker visible on landward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.04	Rating **	M	Issue No.	66 (cont)
LM End	0.04	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.254035 °	38.254035 °
				-121.601757 °	-121.601757 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44878					
DS_ID:21096					
EP_NO: 3635					
FS_HLM: 0.03					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3676.jpg



View of waterward side--no signs of crossing.

LM Start	0.04	Rating **	A	Issue No.	4
LM End	0.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.230288 °	-121.603781 °
				38.253518 °	-121.602252 °
DWR ID	DWR_RD0501_01_s_2012_4				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : FA_2015_RD0501_169_4_20151005_00012.jpg



RD 501 Unit 1 looking downstream from the landside levee slope.

LM Start	0.06	Rating **	A	Issue No.	13
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.253822 °	38.240213 °
				-121.602022 °	-121.603910 °
DWR ID	DWR_RD0501_01_f_2015_13				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The slope landward has been mowed at this location.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.06	Rating **	A	Issue No.	16
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.253822 °	38.240213 °
				-121.602022 °	-121.603905 °
DWR ID	DWR_RD0501_01_f_2015_16				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.19	Rating **	U	Issue No.	979
LM End	0.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252140 °	38.252140 °
				-121.602902 °	-121.602902 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44766 DS_ID:21030 EP_NO: 4581 FS_HLM: 0.17 Repair Type: Urgent Crossing Status: Found UCIP Comments: Damage present on levee crown--unable to confirm if damage due to leak in pipe. Signs of repair work on crown, however, no permit found to document recent damage to levee or repair work. New PVC pipe has been sleeved through the existing 6-inch pipe. Unable to determine if crossing is still in use, if not, crossings needs to be removed according to CVFPB Title 23 requirements. FIELD_STRUCT_DESC: 6-inch steel pipe through the levee, 2.5 feet below the crown. 2-inch steel electrical conduit through levee. Cutoff wall around pipe at center of levee. Pump and gate valve in pump structure on waterward slope. Service pole on landward slope. Pipe exposed on both slopes. (Permit No. 4581-1964) FS Date: 04/21/2015					

Photo 1 of 3 : UCIP_FA_2015_3655.jpg



Subsidence and patch work repair on crown.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.19	Rating **	U	Issue No.	979 (cont)
LM End	0.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.252140 °	38.252140 °
				-121.602902 °	-121.602902 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44766

DS_ID:21030

EP_NO: 4581

FS_HLM: 0.17

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: Damage present on levee crown--unable to confirm if damage due to leak in pipe. Signs of repair work on crown, however, no permit found to document recent damage to levee or repair work. New PVC pipe has been sleeved through the existing 6-inch pipe. Unable to determine if crossing is still in use, if not, crossings needs to be removed according to CVFPB Title 23 requirements.

FIELD_STRUCT_DESC: 6-inch steel pipe through the levee, 2.5 feet below the crown. 2-inch steel electrical conduit through levee. Cutoff wall around pipe at center of levee. Pump and gate valve in pump structure on waterward slope. Service pole on landward slope. Pipe exposed on both slopes. (Permit No. 4581-1964)

FS Date: 04/21/2015

LM Start	0.19	Rating **	U	Issue No.	979 (cont)
LM End	0.19	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3656.jpg



View of crown at crossing.

Photo 3 of 3 : UCIP_FA_2015_3657.jpg



Overview of waterward side--pump, abandoned pipe section, and conduit.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.39	Rating **	M	Issue No.	980
LM End	0.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249197 °	38.249197 °
				-121.603061 °	-121.603061 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32524 DS_ID:21031 EP_NO: N/A FS_HLM: 0.38 Repair Type: Non-Urgent Crossing Status: Found					

LM Start	0.39	Rating **	M	Issue No.	980 (cont)
LM End	0.39	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_3658.jpg



Crown hinge point damaged, roadway section missing.

Photo 2 of 3 : UCIP_FA_2015_3691.jpg



Overview of landside. Pump house and power pole visible on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.39	Rating **	M	Issue No.	980 (cont)
LM End	0.39	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249197 °	38.249197 °
				-121.603061 °	-121.603061 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32524					
DS_ID:21031					
EP_NO: N/A					
FS_HLM: 0.38					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3692.jpg



View of crown

LM Start	0.44	Rating **	M	Issue No.	981
LM End	0.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.248519 °	38.248519
				-121.602972 °	-121.602972
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41409 DS_ID:21032 EP_NO: N/A FS_HLM: 0.43 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner and ask for emergency contact information and permit number. 8/21/13 Contacted Gas Control Division under the emergency contact No. 1-877-723-3344. Message has been forward to Brian Habersack at 916-859-4700, email: bhabersack@gasbiz.com. FIELD_STRUCT_DESC: 6-inch Steel Gas line through the levee 60-feet below the crown. Markers on both shoulders (Permit No. 17033, 2014). FS Date: 06/04/2013					

Photo 1 of 3 : UCIP_FA_2015_3693.jpg



Overview of landside at crossing. Marker on shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.44	Rating **	M	Issue No.	981 (cont)
LM End	0.44	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.248519 °	38.248519 °
				-121.602972 °	-121.602972 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:41409
 DS_ID:21032
 EP_NO: N/A
 FS_HLM: 0.43
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Need to contact owner and ask for emergency contact information and permit number. 8/21/13 Contacted Gas Control Division under the emergency contact No. 1-877-723-3344. Message has been forward to Brian Habersack at 916-859-4700, email: bhabersack@gasbiz.com.
 FIELD_STRUCT_DESC: 6-inch Steel Gas line through the levee 60-feet below the crown. Markers on both shoulders (Permit No. 17033, 2014).
 FS Date: 06/04/2013

LM Start	0.44	Rating **	M	Issue No.	981 (cont)
LM End	0.44	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3694.jpg



Overview of waterside at crossing. Marker on shoulder.

Photo 3 of 3 : UCIP_FA_2015_3695.jpg



Gas line contact information on the sign.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.68	Rating **	M	Issue No.	18
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.245010 °	38.244523 °
				-121.602955 °	-121.602940 °
DWR ID	DWR_RD0501_01_s _ 2012_18				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	0.70	Rating **	M	Issue No.	982
LM End	0.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.244726 °	38.244726 °
				-121.602900 °	-121.602900 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44643 DS_ID:21089 EP_NO: 2683 FS_HLM: 0.69 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2-inch steel water pipe and 1-inch steel electrical conduit through the levee, both 3.0 feet below the crown. Portion of pipe visible under oleanders on LS shoulder may be part of this crossing. No evidence remains on WS slope. FS Date: 04/21/2015					

Photo 1 of 3 : UCIP_FA_2015_6840.jpg



Pipes visible under oleander on LS shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

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Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.70	Rating **	M	Issue No.	982 (cont)
LM End	0.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.244726 °	38.244726 °
				-121.602900 °	-121.602900 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:44643 DS_ID:21089 EP_NO: 2683 FS_HLM: 0.69 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2-inch steel water pipe and 1-inch steel electrical conduit through the levee, both 3.0 feet below the crown. Portion of pipe visible under oleanders on LS shoulder may be part of this crossing. No evidence remains on WS slope. FS Date: 04/21/2015					

LM Start	0.70	Rating **	M	Issue No.	982 (cont)
LM End	0.70	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_6841.jpg



Pipes visilbe under oleander on LS shoulder.

Photo 3 of 3 : UCIP_FA_2015_6842.jpg



Pipes visilbe under oleander on LS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.70	Rating **	M	Issue No.	71
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.244667 °	38.237470 °
				-121.602967 °	-121.604418 °
DWR ID	DWR_RD0501_01_s _ 2012_71				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: There are rodents present in this area, district need to place bait stations in this area.					

No Photos

LM Start	0.97	Rating **	U	Issue No.	983
LM End	0.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.240808 °	38.240808 °
				-121.603628 °	-121.603628 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44655 DS_ID:21034 EP_NO: N/A FS_HLM: 0.97 Repair Type: Urgent Crossing Status: Found UCIP Comments: Unauthorized PVC pipe. Annular space not grouted. 14-inch pipe open on both ends. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, 3.2 feet below the crown. (USACE-1959). 10-inch PVC pipe sleeved through 14-inch with a siphon breaker on the LS shoulder. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.0). FS Date: 04/21/2015					

Photo 1 of 3 : UCIP_FA_2015_6843.jpg



Pipes and siphon breaker on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.97	Rating **	U	Issue No.	983 (cont)	
LM End	0.97	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.240808 °	38.240808 °	
				-121.603628 °	-121.603628 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44655 DS_ID:21034 EP_NO: N/A FS_HLM: 0.97 Repair Type: Urgent Crossing Status: Found UCIP Comments: Unauthorized PVC pipe. Annular space not grouted. 14-inch pipe open on both ends. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee, 3.2 feet below the crown. (USACE-1959). 10-inch PVC pipe sleeved through 14-inch with a siphon breaker on the LS shoulder. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.0). FS Date: 04/21/2015						

Photo 2 of 3 : UCIP_FA_2015_6844.jpg



Pipes visible on WS slope.

Photo 3 of 3 : UCIP_FA_2015_6845.jpg



10-inch PVC pipe sleeved through 14-inch steel pipe on WS slope. No grout identified.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.02	Rating **	M	Issue No.	29
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.240107 °	38.239057 °
				-121.603962 °	-121.604300 °
DWR ID	DWR_RD0501_01_f _ 2015_29				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

DWR Start	1.17	Rating **	A	Issue No.	33
LM End	1.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.238027 °	38.235477 °
				-121.604455 °	-121.604217 °
DWR ID	DWR_RD0501_01_f _ 2015_33				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: The landside slope at this location has been mowed.					

No Photos

LM Start	1.34	Rating **	M	Issue No.	35
LM End	2.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.235477 °	38.215903 °
				-121.604217 °	-121.607568 °
DWR ID	DWR_RD0501_01_f _ 2015_35				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.84	Rating **	U	Issue No.	73
LM End	1.84	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.228399 °	38.228399 °
				-121.604134 °	-121.604134 °
DWR ID	DWR_RD0501_01_s_2014_73				
Action/Comments					
Pipe					
Inspector Comments: Pipe has been replaced but the job is not complete. 4-02-2014. This project as of 11-6-2014 has not been completed. The grouting has not been done.					

Photo 1 of 2 : FA_2015_RD0501_169_73_20150915_00006.jpg



Looking at the unfinished pipe work at levee mile 1.84.

LM Start	1.84	Rating **	U	Issue No.	73 (cont)
LM End	1.84	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2015_RD0501_169_73_20151005_00013.jpg



Looking at this unfinished pipe work on the landward levee slope partially covered with dirt.

LM Start	1.84	Rating **	M	Issue No.	984
LM End	1.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.228373 °	38.228373 °
				-121.604120 °	-121.604120 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44659					
DS_ID:21086					
EP_NO: 13233					
FS_HLM: 1.84					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_6150.jpg



8-inch steel pipe with vent/siphon breaker on WS shoulder. Pipe sleeved through 14-inch steel pipe. Electrical conduit visible next to pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.84	Rating **	M	Issue No.	984 (cont)
LM End	1.84	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.228373 °	38.228373 °
				-121.604120 °	-121.604120 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44659
 DS_ID:21086
 EP_NO: 13233
 FS_HLM: 1.84
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Annular space between pipes not grouted. Steel plate partially covers openings between pipes.
 FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.5-feet below the crown. Cutoff wall around pipe at center of levee. Pump and check valve in pump house on waterward slope. Service pole on landward slope. (Permit No. 13233-1982) 8-inch steel irrigation pipe sleeved through 14-inch (under Permit No. 11813-1, 2013). A 1.5 and a 2.5-inch electrical conduit at same location. Siphon breaker on both shoulders.
 FS Date: 04/21/2015

LM Start	1.84	Rating **	M	Issue No.	984 (cont)
LM End	1.84	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_6151.jpg



8-inch steel pipe with vent/siphon breaker on LS shoulder. Pipe sleeved through 14-inch steel pipe. Electrical conduit visible next to pipe.

Photo 3 of 3 : UCIP_FA_2015_6152.jpg



Sand filter plant on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.92	Rating **	M	Issue No.	131
LM End	2.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.227247 °	38.223326 °
				-121.604157 °	-121.603497 °
DWR ID	DWR_RD0501_01_f_2013_131				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.04	Rating **	M	Issue No.	26
LM End	2.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.225500 °	38.224738 °
				-121.603887 °	-121.603750 °
DWR ID	DWR_RD0501_01_s_2012_26				
Action/Comments					
Note and monitor erosion site.					

No Photos

LM Start	2.23	Rating **	M	Issue No.	27
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.222758 °	38.222030 °
				-121.603348 °	-121.603303 °
DWR ID	DWR_RD0501_01_s_2012_27				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.31	Rating **	U	Issue No.	116
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.221620 °	38.221620 °
				-121.603390 °	-121.603393 °
DWR ID	DWR_RD0501_01_f_2014_116				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Trim the trees to allow slope to be seen.					

Photo 1 of 1 : FA_2015_RD0501_169_116_20151005_00014.jpg



Looking downstream at the woody tree growth on the landward levee slope.

LM Start	2.32	Rating **	U	Issue No.	6
LM End	2.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.221455 °	38.221455 °
				-121.603508 °	-121.603508 °
DWR ID	DWR_RD0501_01_f_2015_6				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: This tree at this location is dead and poses a threat that could cause injury to persons or levee damage.					

Photo 1 of 1 : FA_2015_RD0501_169_6_20151005_00015.jpg



This photo shows an old dead cotton wood tree at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.34	Rating **	M	Issue No.	985
LM End	2.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221277 °	38.221277 °
				-121.603505 °	-121.603505 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44683
 DS_ID:21021
 EP_NO: N/A
 FS_HLM: 2.343
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Appears abandoned and if so should be done so properly. Discarded pipe on WS slope should be removed.
 FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 2.5-feet below the crown. Pump and gate valve in pump house on waterward slope. a 4'X4' concrete distribution box, power pole, and meter on LS toe (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.50).
 FS Date: 04/21/2015

LM Start	2.34	Rating **	M	Issue No.	985 (cont)
LM End	2.34	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_6153.jpg



Pipe, conduit, and pipe debris on WS slope.

Photo 2 of 3 : UCIP_FA_2015_6154.jpg



Pipe and pumphouse on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.34	Rating **	M	Issue No.	985 (cont)
LM End	2.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221277 °	38.221277 °
				-121.603505 °	-121.603505 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44683					
DS_ID:21021					
EP_NO: N/A					
FS_HLM: 2.343					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_6155.jpg



Pipe visible on LS slope.

LM Start	2.38	Rating **	M	Issue No.	14
LM End	4.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.220732 °	38.197748 °
				-121.603730 °	-121.616084 °
DWR ID	DWR_RD0501_01_s_2012_14				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.40	Rating **	M	Issue No.	40
LM End	2.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.220362 °	38.220362 °
				-121.603915 °	-121.603915 °
DWR ID	DWR_RD0501_01_f_2015_40				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: District has crews scheduled to do trees.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.55	Rating **	M	Issue No.	32
LM End	2.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.218470 °	38.217875 °
				-121.605105 °	-121.605532 °
DWR ID	DWR_RD0501_01_s _ 2012_32				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.67	Rating **	M	Issue No.	34
LM End	2.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.217030 °	38.216408 °
				-121.606303 °	-121.607057 °
DWR ID	DWR_RD0501_01_s _ 2012_34				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.82	Rating **	M	Issue No.	986
LM End	2.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.215351 °	38.215351 °
				-121.608013 °	-121.608013 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:32526 DS_ID:21022 EP_NO: 2742 FS_HLM: 2.83 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Additional notes: pump was running during inspection, 16-inch pipe debris section located on landward side, view of standpipe and support structure on waterward side does not match structure description--need to determine if crossing has been altered. FIELD_STRUCT_DESC: 16-inch drainpipe through the levee, 3.6 feet below the crown. Cutoff walls around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump house on landward shoulder. Pipe discharges into 48-inch pipe with screw gate on landward side. (Permit No. 2742-1959). Repairs made to pipe and a portion replaced, from landward shoulder to discharge end on waterward side, under Permit No. 15380 (1999). Rock revetment placed on waterward slope. Revegetation in progress on waterside. FS Date: 06/04/2013					

Photo 1 of 3 : UCIP_FA_2015_3696.jpg



Overview of crown at crossing, looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.82	Rating **	M	Issue No.	986 (cont)
LM End	2.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.215351 °	38.215351 °
				-121.608013 °	-121.608013 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:32526 DS_ID:21022 EP_NO: 2742 FS_HLM: 2.83 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Additional notes: pump was running during inspection, 16-inch pipe debris section located on landward side, view of standpipe and support structure on waterward side does not match structure description--need to determine if crossing has been altered. FIELD_STRUCT_DESC: 16-inch drainpipe through the levee, 3.6 feet below the crown. Cutoff walls around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump house on landward shoulder. Pipe discharges into 48-inch pipe with screw gate on landward side. (Permit No. 2742-1959). Repairs made to pipe and a portion replaced, from landward shoulder to discharge end on waterward side, under Permit No. 15380 (1999). Rock revetment placed on waterward slope. Revegetation in progress on waterside. FS Date: 06/04/2013					

Photo 2 of 3 : UCIP_FA_2015_3697.jpg



Standpipe on landward toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.82	Rating **	M	Issue No.	986 (cont)	
LM End	2.82	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.215351 °	38.215351 °	
				-121.608013 °	-121.608013 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32526 DS_ID:21022 EP_NO: 2742 FS_HLM: 2.83 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the levee slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Additional notes: pump was running during inspection, 16-inch pipe debris section located on landward side, view of standpipe and support structure on waterward side does not match structure description--need to determine if crossing has been altered. FIELD_STRUCT_DESC: 16-inch drainpipe through the levee, 3.6 feet below the crown. Cutoff walls around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump house on landward shoulder. Pipe discharges into 48-inch pipe with screw gate on landward side. (Permit No. 2742-1959). Repairs made to pipe and a portion replaced, from landward shoulder to discharge end on waterward side, under Permit No. 15380 (1999). Rock revetment placed on waterward slope. Revegetation in progress on waterside. FS Date: 06/04/2013						

Photo 3 of 3 : UCIP_FA_2015_3698.jpg



Pump house on landward slope. An abandoned pipe section on landward slope.

LM Start	2.84	Rating **	M	Issue No.	36
LM End	3.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.215112 °	38.208925 °
				-121.608273 °	-121.611162 °
DWR ID	DWR_RD0501_01_s_2012_36				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.85	Rating **	M	Issue No.	3
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.214838 °	38.214075 °
				-121.608129 °	-121.608750 °
DWR ID					
Action/Comments					
Inspector Comments: 2009 - Rock is starting to unravel, probably from a tree pop-out, hard toe. 2015: No observed changes. [2015 Site ID: STM_18-9_R]					

Photo 1 of 1 : USACE2013A_STM_18-9_R_3.jpg



USACE 2013 Photo #1

LM Start	2.91	Rating **	M	Issue No.	37
LM End	2.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.214235 °	38.213547 °
				-121.608993 °	-121.609527 °
DWR ID	DWR_RD0501_01_s_2012_37				
Action/Comments					
Landscaping					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.97	Rating **	M	Issue No.	987
LM End	2.97	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.213439 °	38.213439 °
				-121.609583 °	-121.609583 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44688
 DS_ID:21025
 EP_NO: N/A
 FS_HLM: 2.99
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe appears abandoned and if so should be done so properly.
 FIELD_STRUCT_DESC: 2-inch galvanized iron irrigation pipe through the levee, 3.2 feet below the crown. 6-foot diameter steel standpipe at LS toe. Pipe may run parallel to levee crown to cross levee at site of 14-inch HLM: 2.98
 FS Date: 04/21/2015

LM Start	2.97	Rating **	M	Issue No.	987 (cont)
LM End	2.97	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2015_6221.jpg



Shutoff valve at LS shoulder.

Photo 2 of 2 : UCIP_FA_2015_6222.jpg



Pipe visible at LS shoulder. Pipe connects to top of steel standpipe at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.04	Rating **	M	Issue No.	2
LM End	3.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.212573 °	38.211596 °
				-121.609760 °	-121.609928 °
DWR ID					
Action/Comments					
Inspector Comments: 2000 - Slow erosion of lower and mid-slope with rock bench at the low water line. 2015: No observed changes. [2015 Site ID: STM_18-8_R]					

Photo 1 of 1 : USACE2013A_STM_18-8_R_5.jpg



USACE 2013 Photo #1

LM Start	3.12	Rating **	U	Issue No.	988
LM End	3.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.211386 °	38.211386 °
				-121.610189 °	-121.610189 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42925					
DS_ID:21026					
EP_NO: N/A					
FS_HLM: 3.14					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorize?). Need to contact owner to coordinate with CVFPB.					
FIELD_STRUCT_DESC: 8-inch steel pipe and 1.5-inch steel electrical conduit through the levee, both 2.0 feet below the crown. Gate valve on waterward side. Cutoff wall around pipe and conduit at center of levee. Siphon breaker on apex of pipe at landside shoulder. Pump on piling structure on waterward slope installed under Permit No. 9880 (1975). Meter pole at landward toe. Pipe exposed along landward slope. Discharge filter on landward slope installed under Permit No. 9880-B (1975).					
FS Date: 06/04/2013					

Photo 1 of 3 : UCIP_FA_2015_3699.jpg



Station details--gate valve, air vent, and other appurtenances.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.12	Rating **	U	Issue No.	988 (cont)
LM End	3.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.211386 °	38.211386 °
				-121.610189 °	-121.610189 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:42925

DS_ID:21026

EP_NO: N/A

FS_HLM: 3.14

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorized?). Need to contact owner to coordinate with CVFPB.

FIELD_STRUCT_DESC: 8-inch steel pipe and 1.5-inch steel electrical conduit through the levee, both 2.0 feet below the crown. Gate valve on waterward side. Cutoff wall around pipe and conduit at center of levee. Siphon breaker on apex of pipe at landside shoulder. Pump on piling structure on waterward slope installed under Permit No. 9880 (1975). Meter pole at landward toe. Pipe exposed along landward slope. Discharge filter on landward slope installed under Permit No. 9880-B (1975).

FS Date: 06/04/2013

Photo 2 of 3 : UCIP_FA_2015_3700.jpg



View of levee crown at crossing. Single line crack on levee crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.12	Rating **	U	Issue No.	988 (cont)
LM End	3.12	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.211386 °	38.211386 °
				-121.610189 °	-121.610189 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42925 DS_ID:21026 EP_NO: N/A FS_HLM: 3.14 Repair Type: Urgent Crossing Status: Found UCIP Comments: Damage present to pipe (leak). Additional notes available: 8-inch is leaking on landward side--white sealant and rag used to seal hole, single line crack on the crown of the alignment, pipe through the levee could be bigger than 8-inch unable to confirm. Also found a 3-inch steel pipe approximately 7 feet upstream from 8-inch pipe (authorized or unauthorized?). Need to contact owner to coordinate with CVFPB. FIELD_STRUCT_DESC: 8-inch steel pipe and 1.5-inch steel electrical conduit through the levee, both 2.0 feet below the crown. Gate valve on waterward side. Cutoff wall around pipe and conduit at center of levee. Siphon breaker on apex of pipe at landside shoulder. Pump on piling structure on waterward slope installed under Permit No. 9880 (1975). Meter pole at landward toe. Pipe exposed along landward slope. Discharge filter on landward slope installed under Permit No. 9880-B (1975). FS Date: 06/04/2013					

Photo 3 of 3 : UCIP_FA_2015_3701.jpg



View of waterward side--pressure gauge, conduit, and wraps to prevent leaks.

LM Start	3.19	Rating **	M	Issue No.	15
LM End	3.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.210429 °	38.209974 °
				-121.610503 °	-121.610703 °
DWR ID	DWR_RD0501_01_s_2012_15				
Action/Comments					
Landscaping					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.24	Rating **	U	Issue No.	63
LM End	3.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.209811 °	38.209713 °
				-121.610813 °	-121.610882 °
DWR ID	DWR_RD0501_01_f_2012_63				
Action/Comments					
Material Inspector Comments: There is stock pile of equipment and materials on the levee section that needs to be removed off the levee. No new photo taken of this issue 2014.					

Photo 1 of 1 : FA_2015_RD0501_169_63_20150915_00005.jpg



Equipment and other material on slope and toe of levee section.

LM Start	3.25	Rating **	M	Issue No.	41
LM End	3.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.209548 °	38.208632 °
				-121.610882 °	-121.611275 °
DWR ID	DWR_RD0501_01_s_2012_41				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.33	Rating **	M	Issue No.	43
LM End	3.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.208468 °	38.208292 °
				-121.611348 °	-121.611437 °
DWR ID	DWR_RD0501_01_s_2012_43				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: Trim trees 5-feet above ground, can't see levee slope.					

Photo 1 of 1 : FA_2015_RD0501_169_43_20150915_00004.jpg



Woody tree growth on levee slope and shoulder of the landside. No new photo taken.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.46	Rating **	M	Issue No.	989
LM End	3.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.206726 °	38.206726 °
				-121.612135 °	-121.612135 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:32529
 DS_ID:21028
 EP_NO: N/A
 FS_HLM: 3.48
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe was running during inspection. Crack on crown surface could be associated with pipe vibration during operation. Need to determine owner of crossing. Owner will need to clear vegetation along pipe alignment on landward side to prevent levee inspection along crossing.
 FIELD_STRUCT_DESC: 20-inch pipe through the levee, 2.2 feet below the crown. 1.5-inch electrical conduit along side 20 inch pipe. Pump on platform on waterward side. Walkway present on waterward side. Stand pipe located on landward toe. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.70).
 FS Date: 06/04/2013

LM Start	3.46	Rating **	M	Issue No.	989 (cont)
LM End	3.46	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_3702.jpg



View of waterward side--siphon breaker, walkway, platform, pump, and control panel.

Photo 2 of 3 : UCIP_FA_2015_3703.jpg



20-inch steel pipe along with 1.5-inch electrical conduit on landward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.46	Rating **	M	Issue No.	989 (cont)
LM End	3.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.206726 °	38.206726 °
				-121.612135 °	-121.612135 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32529 DS_ID:21028 EP_NO: N/A FS_HLM: 3.48 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3704.jpg



Single line crack on crown.

LM Start	3.48	Rating **	M	Issue No.	140
LM End	3.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.206494 °	38.205020 °
				-121.612244 °	-121.612824 °
DWR ID	DWR_RD0501_01_f_2013_140				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: RD 501 was working in this area during inspection and plans to remove these berries.					

Photo 1 of 1 : FA_2015_RD0501_169_140_20151005_00016.jpg



Unsatisfactory wild growth of berries on the landward levee slope and toe.

LM Start	3.73	Rating **	M	Issue No.	49
LM End	3.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.202997 °	38.202730 °
				-121.613447 °	-121.613520 °
DWR ID	DWR_RD0501_01_s_2012_49				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.74	Rating **	M	Issue No.	79
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.202818 °	38.197492 °
				-121.613545 °	-121.616342 °
DWR ID	DWR_RD0501_01_s _ 2012_79				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	3.75	Rating **	U	Issue No.	974
LM End	4.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.202657 °	38.197778 °
				-121.613553 °	-121.616080 °
DWR ID	DWR_RD0501_01_s _ 2012_974				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Remove the wild growth from the waterside slope.					

Photo 1 of 1 : FA_2015_RD0501_169_974_20151005_00017.jpg



Unsatisfactory wild tree growth on the waterside slope.

LM Start	4.16	Rating **	M	Issue No.	17
LM End	4.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.197277 °	38.196657 °
				-121.616550 °	-121.617286 °
DWR ID	DWR_RD0501_01_s _ 2012_17				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.27	Rating **	M	Issue No.	990
LM End	4.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.196176 °	38.196176 °
				-121.617898 °	-121.617898 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:19644

DS_ID:21016

EP_NO: N/A

FS_HLM: 4.29

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: Pipe section was altered/modified through levee crown. 12-inch pipe sleeved through existing pipe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Additional Notes: electrical conduit is disconnected on landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also need to contact owner to obtain maintenance records for crossing--need permit authorizing modifications.

FIELD_STRUCT_DESC: 14-inch pipe through the levee, 3.2 feet below the crown. 12-inch pipe sleeved through existing 14-inch pipe and annular space grouted. 1.5-inch electrical conduit runs parallel along 14-inch pipe. Pump on pile structure in channel. Walkway to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.30).

FS Date: 06/04/2013

Photo 1 of 3 : UCIP_FA_2015_1709.jpg



12-inch pipe sleeved through existing 14-inch pipe, and annular space grouted--waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.27	Rating **	M	Issue No.	990 (cont)
LM End	4.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.196176 °	38.196176 °
				-121.617898 °	-121.617898 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:19644

DS_ID:21016

EP_NO: N/A

FS_HLM: 4.29

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: Pipe section was altered/modified through levee crown. 12-inch pipe sleeved through existing pipe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Additional Notes: electrical conduit is disconnected on landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also need to contact owner to obtain maintenance records for crossing--need permit authorizing modifications.

FIELD_STRUCT_DESC: 14-inch pipe through the levee, 3.2 feet below the crown. 12-inch pipe sleeved through existing 14-inch pipe and annular space grouted. 1.5-inch electrical conduit runs parallel along 14-inch pipe. Pump on pile structure in channel. Walkway to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.30).

FS Date: 06/04/2013

Photo 2 of 3 : UCIP_FA_2015_1710.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.27	Rating **	M	Issue No.	990 (cont)
LM End	4.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.196176 °	38.196176 °
				-121.617898 °	-121.617898 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:19644
DS_ID:21016
EP_NO: N/A
FS_HLM: 4.29
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pipe section was altered/modified through levee crown. 12-inch pipe sleeved through existing pipe. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Additional Notes: electrical conduit is disconnected on landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Also need to contact owner to obtain maintenance records for crossing--need permit authorizing modifications.
FIELD_STRUCT_DESC: 14-inch pipe through the levee, 3.2 feet below the crown. 12-inch pipe sleeved through existing 14-inch pipe and annular space grouted. 1.5-inch electrical conduit runs parallel along 14-inch pipe. Pump on pile structure in channel. Walkway to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.30).
FS Date: 06/04/2013

Photo 3 of 3 : UCIP_FA_2015_1711.jpg



Overview of waterward side--pump station, platform, & power pole.

LM Start	4.34	Rating **	U	Issue No.	991
LM End	4.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195627 °	38.195627 °
				-121.619082 °	-121.619082 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44716
DS_ID:21017
EP_NO: N/A
FS_HLM: 4.36
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: Pipe abandoned and open on WS slope. Should be removed or abandoned properly.
FIELD_STRUCT_DESC: 2.5-inch steel electrical conduit through the levee 4-feet below the crown. No Location marker on waterward slope.
FS Date: 04/21/2015

Photo 1 of 2 : UCIP_FA_2015_6223.jpg



2.5-inch conduit visible on WS slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.34	Rating **	U	Issue No.	991 (cont)
LM End	4.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195627 °	38.195627 °
				-121.619082 °	-121.619082 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44716 DS_ID:21017 EP_NO: N/A FS_HLM: 4.36 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and open on WS slope. Should be removed or abandoned properly. FIELD_STRUCT_DESC: 2.5-inch steel electrical conduit through the levee 4-feet below the crown. No Location marker on waterward slope. FS Date: 04/21/2015					

Photo 2 of 2 : UCIP_FA_2015_6224.jpg



2.5-inch conduit visible on WS slope.

LM Start	4.38	Rating **	M	Issue No.	19
LM End	4.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195332 °	38.195310 °
				-121.619749 °	-121.619801 °
DWR ID	DWR_RD0501_01_s_2012_19				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.57	Rating **	M	Issue No.	992
LM End	4.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.194438 °	38.194438 °
				-121.623063 °	-121.623063 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44720
 DS_ID:21103
 EP_NO: N/A
 FS_HLM: 4.6
 Repair Type: Non-Urgent
 Crossing Status: Indicator Found
 UCIP Comments: Need to verify type of abandonment and if needed abandon it properly.
 FIELD_STRUCT_DESC: *ABANDONED* 12-inch pipe through the levee, 3.0 feet below the crown. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.90). A 1.5-inch electrical conduit is visible on the LS slope 3-feet below the crown (good indicator for pipe crossing).
 FS Date: 04/21/2015

LM Start	4.57	Rating **	M	Issue No.	992 (cont)
LM End	4.57	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_6225.jpg



Depression on WS shoulder across from pipe may be a good indicator of pipe location.

Photo 2 of 3 : UCIP_FA_2015_6226.jpg



Mound at pipe visible on LS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.57	Rating **	M	Issue No.	992 (cont)
LM End	4.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.194438 °	38.194438 °
				-121.623063 °	-121.623063 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44720					
DS_ID:21103					
EP_NO: N/A					
FS_HLM: 4.6					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					

Photo 3 of 3 : UCIP_FA_2015_6227.jpg



Pipe visible on LS slope. Succulants mound up over pipe.

LM Start	4.95	Rating **	M	Issue No.	977
LM End	4.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.195057 °	38.195068 °
				-121.629965 °	-121.630173 °
DWR ID	DWR_RD0501_01_s_2012_977				
Action/Comments					
Equipment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	5.04	Rating **	M	Issue No.	993
LM End	5.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195009 °	38.195009 °
				-121.631548 °	-121.631548 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44726 DS_ID:21018 EP_NO: N/A FS_HLM: 5.07 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears abandoned as there are no connections at siphon pump on LS shoulder. If it is abandoned it should be done so properly. FIELD_STRUCT_DESC: 14-inch steel irrigation pipe sleeved through a 16-inch steel pipe through the levee, 3-feet below the crown. Annular space grouted. Siphon pump/breaker on landward shoulder. Steel standpipe with slidegate at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.40). FS Date: 04/23/2015					

Photo 1 of 3 : UCIP_FA_2015_6228.jpg



Pipe visible on WS toe.

Photo 2 of 3 : UCIP_FA_2015_6229.jpg



Steel standpipe and gatevalve on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	5.04	Rating **	M	Issue No.	993 (cont)
LM End	5.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195009 °	38.195009 °
				-121.631548 °	-121.631548 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44726 DS_ID:21018 EP_NO: N/A FS_HLM: 5.07 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_6230.jpg



Siphon pump on LS shoulder. No connection at this time.

LM Start	5.06	Rating **	A/W	Issue No.	144
LM End	5.15	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195012 °	38.194563 °
				-121.631897 °	-121.633400 °
DWR ID	DWR_RD0501_01_f_2013_144				
Action/Comments					
Environmental Requirements.					

No Photos

LM Start	5.08	Rating **	M	Issue No.	45
LM End	5.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194955 °	38.190988 °
				-121.632220 °	-121.641592 °
DWR ID	DWR_RD0501_01_f_2015_45				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	5.27	Rating **	M	Issue No.	65
LM End	5.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.193805 °	38.192457 °
				-121.635391 °	-121.637997 °
DWR ID	DWR_RD0501_01_f_2012_65				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	5.39	Rating **	M	Issue No.	978
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.192878 °	38.192588 °
				-121.637332 °	-121.637802 °
DWR ID	DWR_RD0501_01_f_2013_978				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: The district has scheduled for these trees to be trimmed.					

No Photos

LM Start	5.71	Rating **	M	Issue No.	24
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.190590 °	38.190246 °
				-121.642468 °	-121.643164 °
DWR ID	DWR_RD0501_01_s_2012_24				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	5.77	Rating **	M	Issue No.	1
LM End	5.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.190001 °	38.189311 °
				-121.643160 °	-121.643917 °
DWR ID					
Action/Comments					
Inspector Comments: 2008 - Overstepped levee section with multiple small pockets of erosion 10 - 20 ft wide. 2013 - Site has fresh erosion and taller vertical sections. 2015: No observed changes. [2015 Site ID: STM_15-7_R]					

Photo 1 of 1 : USACE2013A_STM_15-7_R_5.jpg



USACE 2013 Photo #1

LM Start	6.49	Rating **	M	Issue No.	21
LM End	6.68	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.184540 °	38.183924 °
				-121.653865 °	-121.657321 °
DWR ID	DWR_RD0501_01_s _ 2012_21				
Action/Comments					
Fence					

No Photos

LM Start	6.49	Rating **	M	Issue No.	22
LM End	6.68	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.184539 °	38.183923 °
				-121.653865 °	-121.657321 °
DWR ID	DWR_RD0501_01_s _ 2012_22				
Action/Comments					
Landscaping					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.59	Rating **	M	Issue No.	23
LM End	6.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.184136 °	38.184040 °
				-121.655762 °	-121.656291 °
DWR ID	DWR_RD0501_01_s _ 2012_23				
Action/Comments					
Trim trees to at least five feet above ground level. Inspector Comments: The district has scheduled for these trees to be trimmed.					

No Photos

LM Start	6.66	Rating **	M	Issue No.	994
LM End	6.66	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.183961 °	38.183961 °
				-121.656860 °	-121.656860 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32530 DS_ID:21020 EP_NO: N/A FS_HLM: 6.7 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If structure is no longer used--Need to contact owner to determine status. If crossing is no longer used owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: Abandoned 16-inch pipe through the levee, 6.5 feet below the crown. Siphon breaker and service pole on landward shoulder. Electrical box on landside toe. Pump on pile stucture in channel. FS Date: 06/04/2013					

Photo 1 of 3 : UCIP_FA_2015_3705.jpg



Electrical box visible on landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.66	Rating **	M	Issue No.	994 (cont)	
LM End	6.66	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.183961 °	38.183961 °	
				-121.656860 °	-121.656860 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32530 DS_ID:21020 EP_NO: N/A FS_HLM: 6.7 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If structure is no longer used--Need to contact owner to determine status. If crossing is no longer used owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: Abandoned 16-inch pipe through the levee, 6.5 feet below the crown. Siphon breaker and service pole on landward shoulder. Electrical box on landside toe. Pump on pile stucture in channel. FS Date: 06/04/2013						

Photo 2 of 3 : UCIP_FA_2015_3706.jpg



Overview of waterward side--section of pipe visible through dense vegetation.

Photo 3 of 3 : UCIP_FA_2015_3856.jpg



Abandoned 16-inch pipe on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 02 Cache Slough			Left	3.56
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/09/2015 - 04/08/2015		10/01/2015 - 10/01/2015	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Nicolas Zepeda RD 501		Nicolas Zepeda RD 501	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.00	Rating **	M	Issue No.	2
LM End	0.09	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.184050 °	38.185178 °
				-121.657713 °	-121.658515 °
DWR ID	DWR_RD0501_02_s _ 2012_2				
Action/Comments					
Fence					
Inspector Comments: This is not a new encroachment.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	21
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.188260 °	38.188260 °
				-121.648701 °	-121.648700 °
DWR ID	DWR_RD0501_02_s _ 2012_21				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Mow the tall weeds at toe of levee slope.					

Photo 1 of 1 : FA_2015_RD0501_170_21_20151006_00006.jpg



Looking downstream from levee mile 0.00 at the landside slope. Few scattered tall weeds at the toe.

LM Start	0.49	Rating **	M	Issue No.	9
LM End	3.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.190509 °	38.227237 °
				-121.656805 °	-121.673078 °
DWR ID	DWR_RD0501_02_s _ 2012_9				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: District has plans to mow the waterside levee section this season.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	11
LM End	0.54	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.191117 °	38.191170 °
				-121.656468 °	-121.656437 °
DWR ID	DWR_RD0501_02_s_2012_11				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	0.56	Rating **	M	Issue No.	29
LM End	0.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.191452 °	38.191452
				-121.656188 °	-121.656188
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32531 DS_ID:21035 EP_NO: N/A FS_HLM: 0.56 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to determine owner and status of crossing. FIELD_STRUCT_DESC: 10-inch pipe sleeved through a 12-inch pipe through the levee, 5.0 feet below the crown. Pump on waterward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.60). FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_3857.jpg



Overview of waterward side. Inaccessible due to dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.56	Rating **	M	Issue No.	29 (cont)
LM End	0.56	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.191452 °	38.191452 °
				-121.656188 °	-121.656188 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32531 DS_ID:21035 EP_NO: N/A FS_HLM: 0.56 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to determine owner and status of crossing. FIELD_STRUCT_DESC: 10-inch pipe sleeved through a 12-inch pipe through the levee, 5.0 feet below the crown. Pump on waterward side. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.60). FS Date: 06/07/2013					

LM Start	0.56	Rating **	M	Issue No.	29 (cont)
LM End	0.56	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3858.jpg



Overview of landward side.

Photo 3 of 3 : UCIP_FA_2015_3859.jpg



View of crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	30
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195588 °	38.195588
				-121.655189 °	-121.655189
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32532					
DS_ID:21092					
EP_NO: 3703					
FS_HLM: 0.858					
Repair Type: Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_3860.jpg



View of waterward side. Inspector is standing near exposed section of pipe at levee toe.

LM Start	0.86	Rating **	U	Issue No.	30 (cont)
LM End	0.86	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3889.jpg



Deteriorated pipe with visible holes through pipe wall.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	30 (cont)
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195588 °	38.195588
				-121.655189 °	-121.655189
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32532					
DS_ID:21092					
EP_NO: 3703					
FS_HLM: 0.858					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3890.jpg



Overview of waterward side--20 foot berm present.

LM Start	0.86	Rating **	U	Issue No.	31
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195600 °	38.195600 °
				-121.655191 °	-121.655191 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32533 DS_ID:21036 EP_NO: 1902 FS_HLM: 0.859 Repair Type: Urgent Crossing Status: Found UCIP Comments: Reason for an Urgent Priority is due to adjacent crossing--adjacent crossing has holes present and is was installed in the 1960s. Our records show this pipe was installed before 1955. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer in use--Owner will need to coordinate with DWR Inspector and CVFPB. Need to determine condition of pipe--request maintenance records from owner once found--this crossing could be capped and grouted--NEED RECORDS. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 1.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Pipe discharges into concrete sump near landward toe. Pipe is exposed along landward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.90). Section of pipe, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 1902 (1959). FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_3891.jpg



8-inch pipes approximately 1 foot apart.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	31 (cont)
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195600 °	38.195600 °
				-121.655191 °	-121.655191 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:32533
 DS_ID:21036
 EP_NO: 1902
 FS_HLM: 0.859
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: Reason for an Urgent Priority is due to adjacent crossing--adjacent crossing has holes present and is was installed in the 1960s. Our records show this pipe was installed before 1955. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer in use--Owner will need to coordinate with DWR Inspector and CVFPB. Need to determine condition of pipe--request maintenance records from owner once found--this crossing could be capped and grouted--NEED RECORDS.
 FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 1.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Pipe discharges into concrete sump near landward toe. Pipe is exposed along landward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.90). Section of pipe, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 1902 (1959).
 FS Date: 06/07/2013

Photo 2 of 3 : UCIP_FA_2015_3892.jpg



View of waterward side--dense vegetation limits inspection. Unable to locate pipe on waterward side.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.86	Rating **	U	Issue No.	31 (cont)
LM End	0.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.195600 °	38.195600 °
				-121.655191 °	-121.655191 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32533 DS_ID:21036 EP_NO: 1902 FS_HLM: 0.859 Repair Type: Urgent Crossing Status: Found UCIP Comments: Reason for an Urgent Priority is due to adjacent crossing--adjacent crossing has holes present and is was installed in the 1960s. Our records show this pipe was installed before 1955. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. If crossing is no longer in use--Owner will need to coordinate with DWR Inspector and CVFPB. Need to determine condition of pipe--request maintenance records from owner once found--this crossing could be capped and grouted--NEED RECORDS. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 1.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Pipe discharges into concrete sump near landward toe. Pipe is exposed along landward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.90). Section of pipe, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 1902 (1959). FS Date: 06/07/2013					

Photo 3 of 3 : UCIP_FA_2015_3893.jpg



Overview of waterward side--20 foot berm present.

LM Start	1.04	Rating **	M	Issue No.	10
LM End	1.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.198153 °	38.198153 °
				-121.655614 °	-121.655614 °
DWR ID	DWR_RD0501_02_s_2012_10				
Action/Comments					
Note and monitor erosion site. Inspector Comments: This erosion has not been repaired prior to the fall inspection.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.10	Rating **	M	Issue No.	1
LM End	1.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.199128 °	38.200146 °
				-121.655881 °	-121.655638 °
DWR ID					
Action/Comments					
Inspector Comments: 2005 - Large vertical sections due to wave wash. New stone dumped on the bank with exposed geotextile. Cohesive toe has thin weak stratigraphic unit that is washing out. 2006 - Partially repaired, but 100 ft in the middle of the reach has exposed filter fabric and stone riprap is gone. 2010 - Site extended downstream to include new erosion pocket. 2015: No observed changes. [2015 Site ID: CHS_15-9_L]					

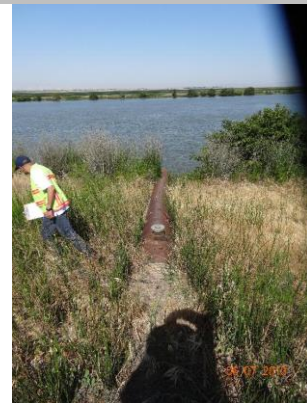
Photo 1 of 1 : USACE2013A_CHS_15-9_L_1.jpg



USACE 2013 Photo #1

LM Start	1.15	Rating **	M	Issue No.	32
LM End	1.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199816 °	38.199816 °
				-121.655395 °	-121.655395 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44865 DS_ID:21038 EP_NO: 2817 FS_HLM: 1.153 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole located on waterward side. FIELD_STRUCT_DESC: 20-inch steel drainpipe sleeved through a 24-inch steel pipe through the levee, 9.0 feet below the crown. Flap gate on waterward end. Two cutoff collars around the pipe at both shoulders. Pipe exposed along both slopes. Rock revetment on waterward slope. Berm on waterward side is over 20 feet. (Permit No. 2817-1959) FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_3894.jpg



View of waterward side--pipe section exposed and siphon breaker. Over 20 feet berm on waterward side.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.15	Rating **	M	Issue No.	32 (cont)
LM End	1.15	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199816 °	38.199816 °
				-121.655395 °	-121.655395 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44865
 DS_ID:21038
 EP_NO: 2817
 FS_HLM: 1.153
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Scour hole located on waterward side.
 FIELD_STRUCT_DESC: 20-inch steel drainpipe sleeved through a 24-inch steel pipe through the levee, 9.0 feet below the crown. Flap gate on waterward end. Two cutoff collars around the pipe at both shoulders. Pipe exposed along both slopes. Rock revetment on waterward slope. Berm on waterward side is over 20 feet. (Permit No. 2817-1959)
 FS Date: 06/07/2013

LM Start	1.15	Rating **	M	Issue No.	32 (cont)
LM End	1.15	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_3895.jpg



Waterward side--2-24 inch pipe inlets.

Photo 3 of 3 : UCIP_FA_2015_3896.jpg



View of levee crown at crossings.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.16	Rating **	M	Issue No.	33
LM End	1.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199837 °	38.199837 °
				-121.655391 °	-121.655391 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44866					
DS_ID:21094					
EP_NO: 14491					
FS_HLM: 1.155					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	1.16	Rating **	M	Issue No.	33 (cont)
LM End	1.16	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_3897.jpg



Siphon breaker located at the waterward shoulder.

Photo 2 of 3 : UCIP_FA_2015_3898.jpg



Two pipes on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.16	Rating **	M	Issue No.	33 (cont)
LM End	1.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.199837 °	38.199837 °
				-121.655391 °	-121.655391 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44866					
DS_ID:21094					
EP_NO: 14491					
FS_HLM: 1.155					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3899.jpg



View of downstream crown.

LM Start	1.25	Rating **	M	Issue No.	34
LM End	1.25	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.201143 °	38.201143 °
				-121.655169 °	-121.655169 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44753 DS_ID:21085 EP_NO: N/A FS_HLM: 1.25 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: Abandoned 20-inch steel pipe through the levee, 15.5 feet below the crown. Pipe exposed along waterward slope, Steel plate welded over end (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.40). FS Date: 04/23/2015					

Photo 1 of 3 : UCIP_FA_2015_6260.jpg



Inside hole in pipe at WS toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.25	Rating **	M	Issue No.	34 (cont)
LM End	1.25	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.201143 °	38.201143 °
				-121.655169 °	-121.655169 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44753
 DS_ID:21085
 EP_NO: N/A
 FS_HLM: 1.25
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly.
 FIELD_STRUCT_DESC: Abandoned 20-inch steel pipe through the levee, 15.5 feet below the crown. Pipe exposed along waterward slope, Steel plate welded over end (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.40).
 FS Date: 04/23/2015

LM Start	1.25	Rating **	M	Issue No.	34 (cont)
LM End	1.25	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_6261.jpg



Hole in pipe at WS toe.

Photo 3 of 3 : UCIP_FA_2015_6262.jpg



20-inch pipe with welded steel plate over end on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.70	Rating **	M	Issue No.	35
LM End	1.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.207507 °	38.207507 °
				-121.656219 °	-121.656219 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44867					
DS_ID:21093					
EP_NO: 13520					
FS_HLM: 1.7					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	1.70	Rating **	M	Issue No.	35 (cont)
LM End	1.70	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_3900.jpg



View of waterward side--pipe extends from berm to river.

Photo 2 of 3 : UCIP_FA_2015_3901.jpg



Photo of pipe looking from berm edge to river edge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.70	Rating **	M	Issue No.	35 (cont)
LM End	1.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.207507 °	38.207507 °
				-121.656219 °	-121.656219 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44867					
DS_ID:21093					
EP_NO: 13520					
FS_HLM: 1.7					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3902.jpg



Overview of waterside. Dense vegetation.

LM Start	1.80	Rating **	M	Issue No.	36
LM End	1.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.208874 °	38.208874 °
				-121.655505 °	-121.655505 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:40489 DS_ID:21042 EP_NO: 15477 FS_HLM: 1.81 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Stacey Boyd, LMA superintendent for RD0501, confirmed the removal and replacement of existing crossing under new permit no. 18811. New crossing will be a 30-inch diameter discharge pipe above the design flood plane. Construction will start soon. Update record once the project is completed. Dense vegetation on both waterside and landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 42-inch steel pipe through the levee, 6.5 feet below the crown. Siphon breaker on waterward slope. Pump on the landward side (Permit No. 15477, 1990). Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0). FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_1735.jpg



Siphon breaker on apex of steel pipe waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.80	Rating **	M	Issue No.	36 (cont)
LM End	1.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.208874 °	38.208874 °
				-121.655505 °	-121.655505 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:40489 DS_ID:21042 EP_NO: 15477 FS_HLM: 1.81 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Stacey Boyd, LMA superintendent for RD0501, confirmed the removal and replacement of existing crossing under new permit no. 18811. New crossing will be a 30-inch diameter discharge pipe above the design flood plane. Construction will start soon. Update record once the project is completed. Dense vegetation on both waterside and landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 42-inch steel pipe through the levee, 6.5 feet below the crown. Siphon breaker on waterward slope. Pump on the landward side (Permit No. 15477, 1990). Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0). FS Date: 06/07/2013					

Photo 2 of 3 : UCIP_FA_2015_1736.jpg



Overview of crown, looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.80	Rating **	M	Issue No.	36 (cont)	
LM End	1.80	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.208874 °	38.208874 °	
				-121.655505 °	-121.655505 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:40489 DS_ID:21042 EP_NO: 15477 FS_HLM: 1.81 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Stacey Boyd, LMA superintendent for RD0501, confirmed the removal and replacement of existing crossing under new permit no. 18811. New crossing will be a 30-inch diameter discharge pipe above the design flood plane. Construction will start soon. Update record once the project is completed. Dense vegetation on both waterside and landside. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 42-inch steel pipe through the levee, 6.5 feet below the crown. Siphon breaker on waterward slope. Pump on the landward side (Permit No. 15477, 1990). Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0). FS Date: 06/07/2013						

Photo 3 of 3 : UCIP_FA_2015_1737.jpg



One 42-inch steel pile with siphon break on waterside slope.

LM Start	1.81	Rating **	M	Issue No.	37
LM End	1.81	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.208998 °	38.208998 °
				-121.655575 °	-121.655575 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19653 DS_ID:21091 EP_NO: 15477 FS_HLM: 1.817 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 2 of 2: 36-inch steel pipe through the levee, 7.0 feet below the crown. Siphon breaker on waterward shoulder. Pumps on landward side. Pipe exposed along both slopes. Pipe supports at levee shoulders, were cutoff walls from pre-existing pipe (Permit No. 15477-1990) Dual 36-inch pipes are approximately 36-inches apart. FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_1852.jpg



Overview of dual pipes on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.81	Rating **	M	Issue No.	37 (cont)	
LM End	1.81	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.208998 °	38.208998 °	
				-121.655575 °	-121.655575 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:19653 DS_ID:21091 EP_NO: 15477 FS_HLM: 1.817 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 2 of 2: 36-inch steel pipe through the levee, 7.0 feet below the crown. Siphon breaker on waterward shoulder. Pumps on landward side. Pipe exposed along both slopes. Pipe supports at levee shoulders, were cutoff walls from pre-existing pipe (Permit No. 15477-1990) Dual 36-inch pipes are approximately 36-inches apart. FS Date: 06/07/2013						

LM Start	1.81	Rating **	M	Issue No.	37 (cont)
LM End	1.81	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_1853.jpg



View of exposed pipe section on waterward side.

Photo 3 of 3 : UCIP_FA_2015_1854.jpg



Overview of crown, looking downstream

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.82	Rating **	M	Issue No.	38
LM End	1.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.209009 °	38.209009 °
				-121.655585 °	-121.655585 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19652					
DS_ID:21084					
EP_NO: 15477					
FS_HLM: 1.82					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	1.82	Rating **	M	Issue No.	38 (cont)
LM End	1.82	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_1824.jpg



View of 36 inch pipes exposed on waterward side.

Photo 2 of 3 : UCIP_FA_2015_1825.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.82	Rating **	M	Issue No.	38 (cont)
LM End	1.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.209009 °	38.209009 °
				-121.655585 °	-121.655585 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19652					
DS_ID:21084					
EP_NO: 15477					
FS_HLM: 1.82					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1826.jpg



Overview of waterward side--3 crossings visible 1-42 inch pipe and 2-36 inch pipes.

LM Start	2.41	Rating **	C	Issue No.	28
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.213169 °	38.213373 °
				-121.664783 °	-121.665090 °
DWR ID	DWR_RD0501_02_s_2014_28				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.44	Rating **	M	Issue No.	39
LM End	2.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.213390 °	38.213390 °
				-121.665104 °	-121.665104 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:32537
 DS_ID:21044
 EP_NO: N/A
 FS_HLM: 2.45
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
 FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 6.2 feet below the crown. Siphon breaker on waterward shoulder. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.60). Pipe was repaired in 1984 under Permit No. 13937. The repair consisted of replacing the pipeline within the levee crown with new soil proofed steel pipe.
 FS Date: 06/07/2013

LM Start	2.44	Rating **	M	Issue No.	39 (cont)
LM End	2.44	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_3903.jpg



View of exposed section of pipe at waterward toe.

Photo 2 of 3 : UCIP_FA_2015_3904.jpg



View of levee crown--narrow road.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.44	Rating **	M	Issue No.	39 (cont)	
LM End	2.44	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.213390 °		38.213390 °
				-121.665104 °		-121.665104 °
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32537						
DS_ID:21044						
EP_NO: N/A						
FS_HLM: 2.45						
Repair Type: Non-Urgent						
Crossing Status: Found						

Photo 3 of 3 : UCIP_FA_2015_3905.jpg



Photo taken just downstream of crossing looking at waterward side.

LM Start	2.80	Rating **	M	Issue No.	40
LM End	2.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.217579 °	38.217579 °
				-121.668963 °	-121.668963 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44872 DS_ID:21045 EP_NO: 4733 FS_HLM: 2.81 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Rock revetment on waterward slope. 16-inch pipe welded to 18-inch pipe near landward shoulder, extends down landward slope. Pipe exposed along both slopes. (Permit No. 4733-1964) FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_1855.jpg



Overview of landward side. Pump system located near crown hinge point.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.80	Rating **	M	Issue No.	40 (cont)	
LM End	2.80	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.217579 °	38.217579 °	
				-121.668963 °	-121.668963 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44872 DS_ID:21045 EP_NO: 4733 FS_HLM: 2.81 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 18-inch pipe through the levee, 4.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Rock revetment on waterward slope. 16-inch pipe welded to 18-inch pipe near landward shoulder, extends down landward slope. Pipe exposed along both slopes. (Permit No. 4733-1964) FS Date: 06/07/2013						

LM Start	2.80	Rating **	M	Issue No.	40 (cont)
LM End	2.80	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_1856.jpg



View of levee crown at crossing.

Photo 3 of 3 : UCIP_FA_2015_1857.jpg



Dense vegetation hindered inspection on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.90	Rating **	M	Issue No.	4
LM End	2.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.218890 °	38.218997 °
				-121.669934 °	-121.669988 °
DWR ID	DWR_RD0501_02_s_2012_4				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	3.07	Rating **	M	Issue No.	41
LM End	3.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.221090 °	38.221090 °
				-121.671384 °	-121.671384 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19657 DS_ID:21046 EP_NO: N/A FS_HLM: 3.087 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch pipe sleeved through a 20-inch pipe through the levee, 4.7 feet below the crown. Annular gap grouted. Siphon breaker on landward shoulder. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.30). The 16-inch pipe was sleeved through pre-existing pipe under Permit No. 2645 (1959). FS Date: 08/22/2013					

Photo 1 of 3 : UCIP_FA_2015_1858.jpg



Dense vegetation along the crown hinge point and beginning section of waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.07	Rating **	M	Issue No.	41 (cont)	
LM End	3.07	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.221090 °	38.221090 °	
				-121.671384 °	-121.671384 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:19657 DS_ID:21046 EP_NO: N/A FS_HLM: 3.087 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch pipe sleeved through a 20-inch pipe through the levee, 4.7 feet below the crown. Annular gap grouted. Siphon breaker on landward shoulder. Pipe exposed along both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.30). The 16-inch pipe was sleeved through pre-existing pipe under Permit No. 2645 (1959). FS Date: 08/22/2013						

LM Start	3.07	Rating **	M	Issue No.	41 (cont)
LM End	3.07	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_1859.jpg



Overview of pipe along waterward side.

Photo 3 of 3 : UCIP_FA_2015_1860.jpg



Dense vegetation along the upper portion of the waterward slope prevents proper inspection of crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 0501 Ryer Island

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 03 Miner Slough			Left	7.71
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/09/2015 - 04/09/2015		10/01/2015 - 10/01/2015	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By			Nicolas Zepeda RD 501	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	-0.01	Rating **	C	Issue No.	1
LM End	0.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.227815 °	38.238702 °
				-121.673129 °	-121.664900 °
DWR ID	DWR_RD0501_03_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: District has mowed the weeds from the landward levee slope. Corrected from last inspection.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	36
LM End	7.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.228035 °	38.285653 °
				-121.673082 °	-121.606480 °
DWR ID	DWR_RD0501_03_f_2015_36				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: District has mowed the levee section landward slope.					

No Photos

LM Start	0.03	Rating **	M	Issue No.	37
LM End	1.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.228437 °	38.240937 °
				-121.672880 °	-121.663552 °
DWR ID	DWR_RD0501_03_f_2015_37				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.62	Rating **	M	Issue No.	132
LM End	0.62	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.234679 °	38.234679 °
				-121.665417 °	-121.665417 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44873 DS_ID:21065 EP_NO: N/A FS_HLM: 0.647 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump operating during inspection. Need to determine owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 6.3 feet below the crown instead of 16-inch pipe mentioned in O&M. Siphon breaker on landward slope. Pipe exposed on both slopes. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.70). FS Date: 06/07/2013					

LM Start	0.62	Rating **	M	Issue No.	132 (cont)
LM End	0.62	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_1861.jpg



Conditions of waterward slope--dense vegetation along slope.

Photo 2 of 3 : UCIP_FA_2015_1946.jpg



Overview of landward side--pump sytem, pipe, and standpipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.62	Rating **	M	Issue No.	132 (cont)
LM End	0.62	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.234679 °	38.234679 °
				-121.665417 °	-121.665417 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44873 DS_ID:21065 EP_NO: N/A FS_HLM: 0.647 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1947.jpg



Overview of waterward side. Dense vegetation limits proper inspection.

LM Start	0.74	Rating **	M	Issue No.	8
LM End	2.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.236416 °	38.257445 °
				-121.665200 °	-121.651440 °
DWR ID	DWR_RD0501_03_f_2012_8				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.35	Rating **	M	Issue No.	133
LM End	1.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.242879 °	38.242879 °
				-121.659450 °	-121.659450 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:44728
 DS_ID:21066
 EP_NO: N/A
 FS_HLM: 1.38
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe appears abandoned and if so should be done so properly. Wooden walkway to pier in disrepair and a hazard.
 FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 8.0-feet below the crown. Siphon breaker on landward slope. Pump on pipe structure in stream. Concrete standpipe and distribution slide gates at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.50). 1.5-inch electrical conduit at same location.
 FS Date: 06/07/2013

LM Start	1.35	Rating **	M	Issue No.	133 (cont)
LM End	1.35	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_6231.jpg



Pump on wooden pier off WS toe.

Photo 2 of 2 : UCIP_FA_2015_6232.jpg



Siphon breaker in 24-inch CMP riser on LS slope. Standpipe visible at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.65	Rating **	M	Issue No.	13
LM End	7.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.246667 °	38.285653
				-121.658611 °	-121.606479
DWR ID	DWR_RD0501_03_s_2013_13				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.88	Rating **	M	Issue No.	134
LM End	1.88	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249362 °	38.249362 °
				-121.656357 °	-121.656357 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43503 DS_ID:21068 EP_NO: N/A FS_HLM: 1.93 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Authorized or Unauthorized? Need permit authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope on both waterward and landward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 6.3 feet below the crown. Pump, gate valve and switch box on waterward slope. Originally reported as 3.8-feet below crown in O+M manual, 1959 at HLM: 2.0. FS Date: 06/07/2013					

Photo 1 of 2 : UCIP_FA_2015_1962.jpg



Overview of waterward side. Pipe is completely obstructed by dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.88	Rating **	M	Issue No.	134 (cont)
LM End	1.88	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.249362 °	38.249362 °
				-121.656357 °	-121.656357 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43503 DS_ID:21068 EP_NO: N/A FS_HLM: 1.93 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Authorized or Unauthorized? Need permit authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the slope on both waterward and landward side. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 6.3 feet below the crown. Pump, gate valve and switch box on waterward slope. Originally reported as 3.8-feet below crown in O+M manual, 1959 at HLM: 2.0. FS Date: 06/07/2013					

Photo 2 of 2 : UCIP_FA_2015_1963.jpg



Overview of landward side. Pipe is visible however dense vegetation limits proper inspection.

LM Start	2.16	Rating **	M	Issue No.	128
LM End	2.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.253373 °	38.257400 °
				-121.655548 °	-121.651536 °
DWR ID	DWR_RD0501_03_f_2013_128				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.19	Rating **	M	Issue No.	38
LM End	2.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.253812 °	38.254262 °
				-121.655403 °	-121.653167 °
DWR ID	DWR_RD0501_03_f_2015_38				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	2.52	Rating **	M	Issue No.	135
LM End	2.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256255 °	38.256255 °
				-121.651551 °	-121.651551 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:18945 DS_ID:21047 EP_NO: N/A FS_HLM: 2.573 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine owner of structure. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 3.3 feet below the crown. Gate valve and switch box on landward slope. Pipe exposed on both slopes. (USACE-1959) Riprap on waterward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70). FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_1619.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.52	Rating **	M	Issue No.	135 (cont)
LM End	2.52	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256255 °	38.256255 °
				-121.651551 °	-121.651551 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:18945
 DS_ID:21047
 EP_NO: N/A
 FS_HLM: 2.573
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Need to determine owner of structure. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
 FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 3.3 feet below the crown. Gate valve and switch box on landward slope. Pipe exposed on both slopes. (USACE-1959) Riprap on waterward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.70).
 FS Date: 06/07/2013

LM Start	2.52	Rating **	M	Issue No.	135 (cont)
LM End	2.52	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP_FA_2015_1620.jpg



Exposed section of pipe located on waterward side.

Photo 3 of 3 : UCIP_FA_2015_1630.jpg



Overview of waterward side. Pipe is mostly buried through waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

No Photos

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.51	Rating **	M	Issue No.	136
LM End	3.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.266187 °	38.266187 °
				-121.641909 °	-121.641909 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32538 DS_ID:21048 EP_NO: N/A FS_HLM: 3.58 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find owner of crossing and determine if permit number is available. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown. Pump on pile structure in stream. Service pole on landward slope. Concrete standpipe at landward toe. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.80). FS Date: 06/07/2013					

LM Start	3.51	Rating **	M	Issue No.	136 (cont)
LM End	3.51	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2015_3906.jpg



Photo taken downstream of structure.

Photo 2 of 2 : UCIP_FA_2015_3994.jpg



View of waterward side. Dense vegetation throughout waterward side.
Walkway visible and support piles.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.55	Rating **	M	Issue No.	15
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.266666 °	38.266857 °
				-121.641475 °	-121.641280 °
DWR ID	DWR_RD0501_03_s_2012_15				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Trim up tree on landside slope.					

No Photos

LM Start	3.62	Rating **	M	Issue No.	131
LM End	3.62	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267490 °	38.267490 °
				-121.640749 °	-121.640749 °
DWR ID	DWR_RD0501_03_f_2015_131				
Action/Comments					
Inspector Comments: FS_ID:46768 DS_ID:21049 EP_NO: 1557 FS_HLM: 3.69 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Crossing appears abandoned--wooden platform structure appears to be abandoned on waterward side. Small hole underneath pipe on landward side--unable to determine cause (rodent/pipe leak) Need to find owner of crossing to determine status. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtances. FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.5 feet below the crown. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.90). Permit No. 1557, 1951). FS Date: 06/07/2013					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

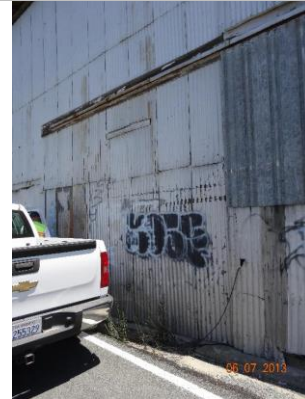
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.62	Rating **	M	Issue No.	22
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.267485 °	38.267578 °
				-121.640667 °	-121.640507 °
DWR ID	DWR_RD0501_03_s_2012_22				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Wild growth has completely covered the slope on landside. The District has started removing some of this brush, more needs to be removed.					

No Photos

LM Start	3.65	Rating **	M	Issue No.	138
LM End	3.65	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.267818 °	38.267818 °
				-121.640521 °	-121.640521 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32540 DS_ID:21050 EP_NO: N/A FS_HLM: 3.716 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to properly inspect structure--limited access. Also unable to determine if structure is still in use. Levee logs indicate this crossing is abandoned. If structure is no longer used-how to prevent water from flowing through levee during flood season. If structure no longer in use owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: Abandoned 5.5 x 5.5 foot concrete tunnel through the levee, 6.5 feet below the crown. FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_3722.jpg



View of large building structure located on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.65	Rating **	M	Issue No.	138 (cont)	
LM End	3.65	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.267818 °	38.267818 °	
				-121.640521 °	-121.640521 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32540 DS_ID:21050 EP_NO: N/A FS_HLM: 3.716 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to properly inspect structure--limited access. Also unable to determine if structure is still in use. Levee logs indicate this crossing is abandoned. If structure is no longer used-how to prevent water from flowing through levee during flood season. If structure no longer in use owner will need to coordinate with CVFPB. FIELD_STRUCT_DESC: Abandoned 5.5 x 5.5 foot concrete tunnel through the levee, 6.5 feet below the crown. FS Date: 06/07/2013						

Photo 2 of 3 : UCIP_FA_2015_3723.jpg



View of narrow levee crown.

Photo 3 of 3 : UCIP_FA_2015_3995.jpg



View of structure on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.66	Rating **	U	Issue No.	139
LM End	3.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268003 °	38.268003 °
				-121.640474 °	-121.640474 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44743 DS_ID:21051 EP_NO: N/A FS_HLM: 3.729 Repair Type: Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_5510.jpg



Tunnel open on both ends.

LM Start	3.66	Rating **	U	Issue No.	139 (cont)
LM End	3.66	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_5511.jpg



Concrete tunnel and wingwalls visible on WS slope.

LM Start	3.66	Rating **	U	Issue No.	139 (cont)
LM End	3.66	Issue Type +	En	Location *	LS

Photo 3 of 3 : UCIP_FA_2015_5512.jpg



Building on LS shoulder prevents access to LS of levee.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.68	Rating **	M	Issue No.	140
LM End	3.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268278 °	38.268278 °
				-121.640377 °	-121.640377 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19662					
DS_ID:21052					
EP_NO: N/A					
FS_HLM: 3.748					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_1964.jpg



Dense vegetation along the pipe alignment and throughout waterward slope.

LM Start	3.68	Rating **	M	Issue No.	140 (cont)
LM End	3.68	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_1965.jpg



Reminiscence of grain loading auger located on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.68	Rating **	M	Issue No.	140 (cont)
LM End	3.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268278 °	38.268278 °
				-121.640377 °	-121.640377 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19662 DS_ID:21052 EP_NO: N/A FS_HLM: 3.748 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1966.jpg



View of waterward side. Pipe visible through dense vegetation.

LM Start	3.70	Rating **	M	Issue No.	141
LM End	3.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268570 °	38.268570 °
				-121.640408 °	-121.640408 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43524					
DS_ID:21053					
EP_NO: N/A					
FS_HLM: 3.77					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope.					
Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.5 feet below the crown. Pump in pump house on waterward slope. (USACE-1959).					
This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.00). (Permit No. 1557, 1951).					
FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_1967.jpg



Close up of pipe along landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	3.70	Rating **	M	Issue No.	141 (cont)
LM End	3.70	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.268570 °	38.268570 °
				-121.640408 °	-121.640408 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:43524
 DS_ID:21053
 EP_NO: N/A
 FS_HLM: 3.77
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) through the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
 FIELD_STRUCT_DESC: 6-inch pipe through the levee, 2.5 feet below the crown. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.00). (Permit No. 1557, 1951).
 FS Date: 06/07/2013

LM Start	3.70	Rating **	M	Issue No.	141 (cont)
LM End	3.70	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_1968.jpg



View of landward side. Pipe visible.

Photo 3 of 3 : UCIP_FA_2015_1969.jpg



View of waterward side. Dense vegetation limits inspections. Signs of structure visible highlighted by red box.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.30	Rating **	M	Issue No.	142
LM End	4.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275862 °	38.275862 °
				-121.638709 °	-121.638709 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44876					
DS_ID:21069					
EP_NO: N/A					
FS_HLM: 4.387					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	4.30	Rating **	M	Issue No.	142 (cont)
LM End	4.30	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_1970.jpg



Line cracks along crown near crown hinge point on waterward side.

Photo 2 of 3 : UCIP_FA_2015_1971.jpg



View of waterward slope. Dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.30	Rating **	M	Issue No.	142 (cont)
LM End	4.30	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275862 °	38.275862 °
				-121.638709 °	-121.638709 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44876					
DS_ID:21069					
EP_NO: N/A					
FS_HLM: 4.387					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_1972.jpg



View of landward side. Dry vegetation covers landward slope. Pump system located on landward slope.

LM Start	4.31	Rating **	M	Issue No.	143
LM End	4.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.275955 °	38.275955 °
				-121.638626 °	-121.638626 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44746 DS_ID:21107 EP_NO: N/A FS_HLM: 4.39 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify type of abandonment. FIELD_STRUCT_DESC: *ABANDONED* 10-inch pipe through the levee, 4.8 feet below the crown. 34-inch concrete standpipe on LS toe. 10-inch diameter hole in standpipe where abandoned pipe once connected (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 4.60). FS Date: 04/23/2015					

Photo 1 of 2 : UCIP_FA_2015_6254.jpg



10-inch diameter hole cut in side of standpipe where pipe once was installed.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.31	Rating **	M	Issue No.	143 (cont)	
LM End	4.31	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.275955 °	38.275955 °	
				-121.638626 °	-121.638626 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44746						
DS_ID:21107						
EP_NO: N/A						
FS_HLM: 4.39						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Need to verify type of abandonment.						
FIELD_STRUCT_DESC: *ABANDONED* 10-inch pipe through the						
levee, 4.8 feet below the crown. 34-inch concrete standpipe on LS toe.						
10-inch diameter hole in standpipe where abandoned pipe once						
connected (USACE-1959). This entry matches the Drainage or						
Irrigation Structure referenced in O&M manual (HLM 4.60).						
FS Date: 04/23/2015						

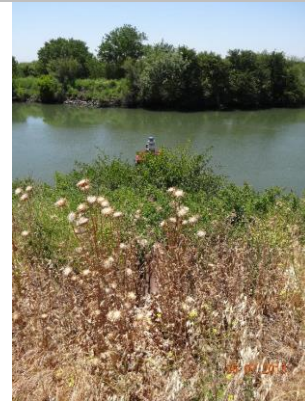
Photo 2 of 2 : UCIP_FA_2015_6255.jpg



34-inch diameter concrete standpipe at LS toe.

LM Start	4.75	Rating **	M	Issue No.	144
LM End	4.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.281041 °	38.281041 °
				-121.640904 °	-121.640904 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32541 DS_ID:21071 EP_NO: N/A FS_HLM: 4.836 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: --Contact owner--Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtances. Walkway and siphon breaker not found. FIELD_STRUCT_DESC: 12-inch concrete pipe through the levee, 2.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at shoulder. Pump on pile structure in stream. Walkway access to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.10). FS Date: 06/07/2013					

Photo 1 of 2 : UCIP_FA_2015_3124.jpg



View of waterward side. Pump located on pile structure in stream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	4.75	Rating **	M	Issue No.	144 (cont)	
LM End	4.75	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.281041 °	38.281041 °	
				-121.640904 °	-121.640904 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32541 DS_ID:21071 EP_NO: N/A FS_HLM: 4.836 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: --Contact owner--Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway and siphon breaker not found. FIELD_STRUCT_DESC: 12-inch concrete pipe through the levee, 2.5 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at shoulder. Pump on pile structure in stream. Walkway access to pump. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.10). FS Date: 06/07/2013						

Photo 2 of 2 : UCIP_FA_2015_3125.jpg



View of landward side. Power source and control box on landward side.

LM Start	5.43	Rating **	M	Issue No.	145
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288951 °	38.288951 °
				-121.644223 °	-121.644223 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44877					
DS_ID:21055					
EP_NO: N/A					
FS_HLM: 5.52					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee,					
1.8-feet below the crown. Pump on pile structure in stream. Pipe					
exposed on landward side. (USACE-1959). This entry matches the					
Drainage or Irrigation Structure referenced in O&M manual (HLM 5.90).					
FS Date: 04/23/2015					

Photo 1 of 2 : UCIP_FA_2015_6256.jpg



Cut in buried pipe on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	5.43	Rating **	M	Issue No.	145 (cont)	
LM End	5.43	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.288951 °		38.288951 °
				-121.644223 °		-121.644223 °
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44877						
DS_ID:21055						
EP_NO: N/A						
FS_HLM: 5.52						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe abandoned and should be done so properly.						
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee,						
1.8-feet below the crown. Pump on pile structure in stream. Pipe						
exposed on landward side. (USACE-1959). This entry matches the						
Drainage or Irrigation Structure referenced in O&M manual (HLM 5.90).						
FS Date: 04/23/2015						

Photo 2 of 2 : UCIP_FA_2015_6257.jpg



Buried pipe exposed in trench 8-feet downstream from visible pipe.

LM Start	5.43	Rating **	M	Issue No.	146
LM End	5.43	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.288950 °	38.288950 °
				-121.644183 °	-121.644183 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19666 DS_ID:21054 EP_NO: N/A FS_HLM: 5.51 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to find owner and permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch pipe through the levee, 3.0 feet below the crown. Pump on pile structure in stream. FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_1973.jpg



View of pipe on landward side. Dry vegetation covers landward slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	5.43	Rating **	M	Issue No.	146 (cont)	
LM End	5.43	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.288950 °	38.288950 °	
				-121.644183 °	-121.644183 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:19666 DS_ID:21054 EP_NO: N/A FS_HLM: 5.51 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to find owner and permit number authorizing work. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 12-inch pipe through the levee, 3.0 feet below the crown. Pump on pile structure in stream. FS Date: 06/07/2013						

Photo 2 of 3 : UCIP_FA_2015_1974.jpg



Structure visible through the dense vegetation. Limited access unable to inspect.

LM Start	5.43	Rating **	M	Issue No.	146 (cont)
LM End	5.43	Issue Type +	En	Location *	LS

Photo 3 of 3 : UCIP_FA_2015_1975.jpg



Overview of waterward side. Control box located near levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.39	Rating **	M	Issue No.	147
LM End	6.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290373 °	38.290373 °
				-121.627633 °	-121.627633 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32542					
DS_ID:21059					
EP_NO: N/A					
FS_HLM: 6.5					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_3126.jpg



View of landward side. Pipe goes through levee and into concrete standpipe.

LM Start	6.39	Rating **	M	Issue No.	147 (cont)
LM End	6.39	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_3127.jpg



Overview of levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	En : Enforcement
	N : Not Inspected/Rated	
	C : Corrected	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.39	Rating **	M	Issue No.	147 (cont)
LM End	6.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290373 °	38.290373 °
				-121.627633 °	-121.627633 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32542					
DS_ID:21059					
EP_NO: N/A					
FS_HLM: 6.5					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3128.jpg



View of waterward side. Dense vegetation along levee slope.

LM Start	6.40	Rating **	M	Issue No.	148
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356 °	38.290356 °
				-121.627488 °	-121.627488 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42118 DS_ID:24054 EP_NO: N/A FS_HLM: 6.51 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to determine encroachment number issued for pipe installation. FIELD_STRUCT_DESC: Gasline through levee at an angle with unknown depth. Markers visible on both sides. FS Date: 06/13/2013					

Photo 1 of 3 : UCIP_FA_2015_5962.jpg



Marker with contact information on landward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.40	Rating **	M	Issue No.	148 (cont)	
LM End	6.40	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290356 °	38.290356 °	
				-121.627488 °	-121.627488 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:42118						
DS_ID:24054						
EP_NO: N/A						
FS_HLM: 6.51						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Need to determine encroachment number issued for pipe installation.						
FIELD_STRUCT_DESC: Gasline through levee at an angle with unknown depth. Markers visible on both sides.						
FS Date: 06/13/2013						

LM Start	6.40	Rating **	M	Issue No.	148 (cont)
LM End	6.40	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_5963.jpg



Marker visible on landward side.

Photo 3 of 3 : UCIP_FA_2015_5964.jpg



Markers visible on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.40	Rating **	M	Issue No.	149
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290351 °	38.290351 °
				-121.627452 °	-121.627452 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19668 DS_ID:21057 EP_NO: N/A FS_HLM: 6.514 Repair Type: Non-Urgent Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_2069.jpg



Pipe visible through dense vegetation. Reminiscence of platform located on river.

LM Start	6.40	Rating **	M	Issue No.	149 (cont)
LM End	6.40	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_2070.jpg



View of waterward side. Metal posts near the levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.40	Rating **	M	Issue No.	149 (cont)
LM End	6.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290351 °	38.290351 °
				-121.627452 °	-121.627452 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:19668					
DS_ID:21057					
EP_NO: N/A					
FS_HLM: 6.514					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_2085.jpg



Overview of levee crown--multiple crossings within a 50 foot stretch.

LM Start	6.41	Rating **	M	Issue No.	150
LM End	6.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290345 °	38.290345 °
				-121.627401 °	-121.627401 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32543 DS_ID:21058 EP_NO: N/A FS_HLM: 6.52 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find pipe owner. Unable to determine status of crossing. FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee, 2.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Surge chamber at landward toe. Pump near waterward toe. Pipe exposed on landward side. (USACE-1959). Concrete platform 4 feet by 3 feet located on landward toe. 3-inch conduit runs along 8-inch steel pipe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90). FS Date: 06/13/2013					

Photo 1 of 3 : UCIP_FA_2015_3129.jpg



Overview of levee crown--multiple crossings within 50 foot stretch.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.41	Rating **	M	Issue No.	150 (cont)
LM End	6.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290345 °	38.290345 °
				-121.627401 °	-121.627401 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:32543
 DS_ID:21058
 EP_NO: N/A
 FS_HLM: 6.52
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find pipe owner. Unable to determine status of crossing.
 FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee, 2.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Surge chamber at landward toe. Pump near waterward toe. Pipe exposed on landward side. (USACE-1959). Concrete platform 4 feet by 3 feet located on landward toe. 3-inch conduit runs along 8-inch steel pipe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90).
 FS Date: 06/13/2013

Photo 2 of 3 : UCIP_FA_2015_3130.jpg



View of waterward side. Dense vegetation along levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.41	Rating **	M	Issue No.	150 (cont)
LM End	6.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290345 °	38.290345 °
				-121.627401 °	-121.627401 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32543 DS_ID:21058 EP_NO: N/A FS_HLM: 6.52 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Need to find pipe owner. Unable to determine status of crossing. FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee, 2.7 feet below the crown. Siphon breaker on apex of pipe at landward shoulder. Surge chamber at landward toe. Pump near waterward toe. Pipe exposed on landward side. (USACE-1959). Concrete platform 4 feet by 3 feet located on landward toe. 3-inch conduit runs along 8-inch steel pipe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90). FS Date: 06/13/2013					

Photo 3 of 3 : UCIP_FA_2015_3131.jpg



View levee crown at crossing.

LM Start	6.41	Rating **	M	Issue No.	151
LM End	6.41	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290356 °	38.290356 °
				-121.627349 °	-121.627349 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44748 DS_ID:21027 EP_NO: N/A FS_HLM: 6.52 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 2 of 2: 4-inch steel pipe through the levee, 7.3 feet below the crown. (USACE-1959). Pipe visible on upstream side of wooden platform of WS slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90). FS Date: 04/23/2015					

Photo 1 of 2 : UCIP_FA_2015_6258.jpg



Pipe visible on upstream side of wooden platform on the WS slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.41	Rating **	M	Issue No.	151 (cont)	
LM End	6.41	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.290356 °	38.290356 °	
				-121.627349 °	-121.627349 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:44748						
DS_ID:21027						
EP_NO: N/A						
FS_HLM: 6.52						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: 2 of 2: 4-inch steel pipe through the levee, 7.3 feet below the crown. (USACE-1959). Pipe visible on upstream side of wooden platform of WS slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.90).						
FS Date: 04/23/2015						

Photo 2 of 2 : UCIP_FA_2015_6259.jpg



4-inch pipe connected to smaller galvanized iron pipe on WS slope.

LM Start	6.81	Rating **	M	Issue No.	152
LM End	6.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290130 °	38.290130 °
				-121.620168 °	-121.620168 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32544 DS_ID:21060 EP_NO: N/A FS_HLM: 6.928 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway missing but platform remain on the waterward side. FIELD_STRUCT_DESC: 12-inch pipe through the levee, 6.5 feet below the crown. Switch panel on waterward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.30). FS Date: 06/13/2013					

Photo 1 of 4 : UCIP_FA_2015_3132.jpg



Corrugated metal riser located on the landward slope (top portion).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.81	Rating **	M	Issue No.	152 (cont)
LM End	6.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290130 °	38.290130 °
				-121.620168 °	-121.620168 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32544 DS_ID:21060 EP_NO: N/A FS_HLM: 6.928 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. Walkway missing but platform remain on the waterward side. FIELD_STRUCT_DESC: 12-inch pipe through the levee, 6.5 feet below the crown. Switch panel on waterward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.30). FS Date: 06/13/2013					

Photo 2 of 4 : UCIP_FA_2015_3133.jpg



View of standpipes located on landward side.

Photo 3 of 4 : UCIP_FA_2015_3134.jpg



View of waterward side. Support piles, conduit line, and pump visible on waterward side. Dense vegetation covers waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	6.81	Rating **	M	Issue No.	152 (cont)
LM End	6.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.290130 °	38.290130 °
				-121.620168 °	-121.620168 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32544					
DS_ID:21060					
EP_NO: N/A					
FS_HLM: 6.928					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 4 of 4 : UCIP_FA_2015_3135.jpg



Dry vegetation throughout the landward slope.

LM Start	7.22	Rating **	M	Issue No.	153
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.287837 °	38.287837 °
				-121.613453 °	-121.613453 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46834 DS_ID:21061 EP_NO: N/A FS_HLM: 7.345 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/19/2015 DWR Inspector (H. Phillips) coordinated with LMA superintendent and the owner for this crossing is Walter Koeing, APN No. 042220040. According to LMA superintendent owner installed filter system with fence on landward side and fence around pump in 2012. Pipe not replaced in 2012, this pipe would be a good candidate for internal inspection since the installation date for this crossing was recorded as 1946.06/13/2013 Conduit visible on landward side; new gate on WS toe; filtration system with security fence; Pipe has been upgraded--need permit authorizing work and owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Siphon breaker and service pole on landward slope. 2-inch conduit runs parallel to 8-inch steel pipe. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.00). FS Date: 06/13/2013					

Photo 1 of 3 : UCIP_FA_2015_2086.jpg



Pipe section near toe is protected by security fence.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	7.22	Rating **	M	Issue No.	153 (cont)
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.287837 °	38.287837 °
				-121.613453 °	-121.613453 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46834 DS_ID:21061 EP_NO: N/A FS_HLM: 7.345 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments:11/19/2015 DWR Inspector (H. Phillips) coordinated with LMA superintendent and the owner for this crossing is Walter Koeing, APN No. 042220040. According to LMA superintendent owner installed filter system with fence on landward side and fence around pump in 2012. Pipe not replaced in 2012, this pipe would be a good candidate for internal inspection since the installation date for this crossing was recorded as 1946.06/13/2013 Conduit visible on landward side; new gate on WS toe; filtration system with security fence; Pipe has been upgraded--need permit authorizing work and owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Siphon breaker and service pole on landward slope. 2-inch conduit runs parallel to 8-inch steel pipe. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.00). FS Date: 06/13/2013					

Photo 2 of 3 : UCIP_FA_2015_2087.jpg



Pipe connection after pump station.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	7.22	Rating **	M	Issue No.	153 (cont)
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.287837 °	38.287837 °
				-121.613453 °	-121.613453 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46834 DS_ID:21061 EP_NO: N/A FS_HLM: 7.345 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments:11/19/2015 DWR Inspector (H. Phillips) coordinated with LMA superintendent and the owner for this crossing is Walter Koeing, APN No. 042220040. According to LMA superintendent owner installed filter system with fence on landward side and fence around pump in 2012. Pipe not replaced in 2012, this pipe would be a good candidate for internal inspection since the installation date for this crossing was recorded as 1946.06/13/2013 Conduit visible on landward side; new gate on WS toe; filtration system with security fence; Pipe has been upgraded--need permit authorizing work and owner. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 3.7 feet below the crown. Siphon breaker and service pole on landward slope. 2-inch conduit runs parallel to 8-inch steel pipe. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.00). FS Date: 06/13/2013					

Photo 3 of 3 : UCIP_FA_2015_2088.jpg



Overview of levee crown.

LM Start	7.23	Rating **	U	Issue No.	28
LM End	7.23	Issue Type +	En	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.287750 °	38.287750 °
				-121.613335 °	-121.613335 °
DWR ID	DWR_RD0501_03_f_2012_28				
Action/Comments					
Pipe Inspector Comments: There is a pumping station, new pipe, sand filter, concrete pad, and fence within the 10 foot easement landside. Waterside new pipe pump and fence on water ward toe of levee. At this site there is an open trench on landward slope. Discovered 11-26-2012. District has not pursued any further with this matter to date. No change to this site no new photo.					

Photo 1 of 1 : FA_2015_RD0501_171_28_20150915_00002.jpg



This filtration system sits within 10-foot of the landward toe, there is no CVFPB permit on file.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	7.55	Rating **	M	Issue No.	33
LM End	7.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.286653 °	38.286342 °
				-121.608398 °	-121.608183 °
DWR ID	DWR_RD0501_03_s_2012_33				
Action/Comments					
Landscaping					

No Photos

LM Start	7.59	Rating **	U	Issue No.	154
LM End	7.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.286153 °	38.286153 °
				-121.607959 °	-121.607959 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32545 DS_ID:21063 EP_NO: 11812 FS_HLM: 7.72 Repair Type: Urgent Crossing Status: Found UCIP Comments: Open cut section of levee on LS slope 8 foot wide--repair work needed. Abandoned pump on waterward berm. Dense vegetation--Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances on waterward side. FIELD_STRUCT_DESC: 14-inch steel pipe and 1.25-inch electrical conduit through the levee, both 3.0 feet below the crown. Cutoff wall around pipe and conduit at center of levee. Siphon breaker on apex of pipe at landward shoulder. Slant pump on waterward slope. Discharge structure at landward toe. Rock revetment on waterward slope. (Permit No. 11812-1976) FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_4030.jpg



Slant pump located on waterward side. An abandoned pump left on waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

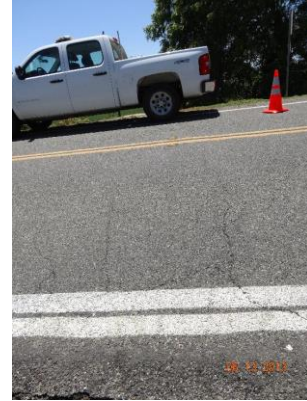
Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	7.59	Rating **	U	Issue No.	154 (cont)	
LM End	7.59	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.286153 °	38.286153 °	
				-121.607959 °	-121.607959 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32545 DS_ID:21063 EP_NO: 11812 FS_HLM: 7.72 Repair Type: Urgent Crossing Status: Found UCIP Comments: Open cut section of levee on LS slope 8 foot wide--repair work needed. Abandoned pump on waterward berm. Dense vegetation--Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances on waterward side. FIELD_STRUCT_DESC: 14-inch steel pipe and 1.25-inch electrical conduit through the levee, both 3.0 feet below the crown. Cutoff wall around pipe and conduit at center of levee. Siphon breaker on apex of pipe at landward shoulder. Slant pump on waterward slope. Discharge structure at landward toe. Rock revetment on waterward slope. (Permit No. 11812-1976) FS Date: 06/07/2013						

LM Start	7.59	Rating **	U	Issue No.	154 (cont)
LM End	7.59	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_4031.jpg



View of levee crown at crossing.

Photo 3 of 3 : UCIP_FA_2015_4032.jpg



View of waterward side--pump located at the berm edge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	7.60	Rating **	M	Issue No.	155
LM End	7.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.286134 °	38.286134 °
				-121.607920 °	-121.607920 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32546					
DS_ID:21064					
EP_NO: N/A					
FS_HLM: 7.714					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	7.60	Rating **	M	Issue No.	155 (cont)
LM End	7.60	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_3673.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP_FA_2015_3674.jpg



View of waterward side--dense vegetation limits visibility of 8-inch steel pipe. Pump belongs to another crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	10/01/2015 10/01/2015	Herman Phillips

LM Start	7.60	Rating **	M	Issue No.	155 (cont)
LM End	7.60	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.286134 °	38.286134 °
				-121.607920 °	-121.607920 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32546					
DS_ID:21064					
EP_NO: N/A					
FS_HLM: 7.714					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3675.jpg



View of waterward side looking up at levee shoulder.

LM Start	7.71	Rating **	M	Issue No.	4
LM End	7.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.286134 °	38.286134
				-121.607920 °	-121.607920
DWR ID	DWR_RD0501_03_f_2015_4				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Reclamation District No. 0501 Ryer Island

Waterway			Bank	Unit Miles
Unit No. 04 Sutter Slough			Right	2.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/08/2015 - 04/08/2015		10/01/2015 - 10/01/2015	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Nicolas Zepeda RD 501		Nicolas Zepeda RD 501	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.00	Rating **	A	Issue No.	5
LM End	2.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285591 °	38.256225 °
				-121.606317 °	-121.600900 °
DWR ID	DWR_RD0501_04_s_2012_5				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: RD 501 Has done a great job of removing the wild grasses from the landward slope.					

Photo 1 of 1 : FA_2015_RD0501_172_5_20151006_00005.jpg



Unit 4 RD 501 looking downstream from levee mile 0.00.

LM Start	0.26	Rating **	M	Issue No.	21
LM End	2.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.282538 °	38.256225 °
				-121.603023 °	-121.600900 °
DWR ID	DWR_RD0501_04_f_2015_21				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	67
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278848 °	38.278848 °
				-121.601216 °	-121.601216 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:32547 DS_ID:21080 EP_NO: 18135 FS_HLM: 0.558 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Cracks visible on levee crown could be associated with pipe vibration or settlement. Burrow activity on landward side. Recommend removing vegetation along pipe alignment on landward side to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 10-inch iron pipe through the levee, 3.5 feet below the crown. Cutoff wall around pipe at landward shoulder. Slant pump and pump house on waterward slope. Concrete standpipe and power pole at landward toe. Service pole on landward slope. Pipe exposed on both slopes. (Permit No. 2446-1957) Section of pipe under levee crown, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 18135 (2006). Two crossings nearby 10-inch pipe and 8-inch pipe crossings are approximately 5 feet apart. FS Date: 06/07/2013					

Photo 1 of 3 : UCIP_FA_2015_3501.jpg



View of levee crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	67 (cont)
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278848 °	38.278848 °
				-121.601216 °	-121.601216 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:32547
 DS_ID:21080
 EP_NO: 18135
 FS_HLM: 0.558
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Cracks visible on levee crown could be associated with pipe vibration or settlement. Burrow activity on landward side. Recommend removing vegetation along pipe alignment on landward side to conduct proper inspection of structure and appurtenances.
 FIELD_STRUCT_DESC: 10-inch iron pipe through the levee, 3.5 feet below the crown. Cutoff wall around pipe at landward shoulder. Slant pump and pump house on waterward slope. Concrete standpipe and power pole at landward toe. Service pole on landward slope. Pipe exposed on both slopes. (Permit No. 2446-1957) Section of pipe under levee crown, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 18135 (2006). Two crossings nearby 10-inch pipe and 8-inch pipe crossings are approximately 5 feet apart.
 FS Date: 06/07/2013

Photo 2 of 3 : UCIP_FA_2015_3502.jpg



Overview of waterward side--2 crossings located within 5 feet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	67 (cont)
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278848 °	38.278848 °
				-121.601216 °	-121.601216 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:32547
 DS_ID:21080
 EP_NO: 18135
 FS_HLM: 0.558
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Cracks visible on levee crown could be associated with pipe vibration or settlement. Burrow activity on landward side. Recommend removing vegetation along pipe alignment on landward side to conduct proper inspection of structure and appurtenances.
 FIELD_STRUCT_DESC: 10-inch iron pipe through the levee, 3.5 feet below the crown. Cutoff wall around pipe at landward shoulder. Slant pump and pump house on waterward slope. Concrete standpipe and power pole at landward toe. Service pole on landward slope. Pipe exposed on both slopes. (Permit No. 2446-1957) Section of pipe under levee crown, between both shoulders, was removed and replaced with a 10-inch steel pipe under Permit No. 18135 (2006). Two crossings nearby 10-inch pipe and 8-inch pipe crossings are approximately 5 feet apart.
 FS Date: 06/07/2013

Photo 3 of 3 : UCIP_FA_2015_3503.jpg



Slant pump located on waterward side. 10 inch pipe connects at an angle to tar coated pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	68
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278831 °	38.278831 °
				-121.601213 °	-121.601213 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:32548
 DS_ID:21079
 EP_NO: 2446
 FS_HLM: 0.56
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Permit documents indicate that pipe does not appear to be properly grouted. Crossing needs to be properly abandoned per CVFPB Title 23--need to find owner. Also recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.
 FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee, 6.0 feet below the crown. Pump on waterward side. Steel plate welded on waterward end. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.60). Pipe was abandoned under Permit No. 2446 (1957). 10-inch steel pipe is located approximately 5 feet downstream.
 FS Date: 06/13/2013

LM Start	0.54	Rating **	M	Issue No.	68 (cont)
LM End	0.54	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_3504.jpg



Pump house is associated with abandoned 8 inch pipe.

Photo 2 of 3 : UCIP_FA_2015_3505.jpg



View of levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	0.54	Rating **	M	Issue No.	68 (cont)
LM End	0.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.278831 °	38.278831 °
				-121.601213 °	-121.601213 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32548					
DS_ID:21079					
EP_NO: 2446					
FS_HLM: 0.56					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3539.jpg



Overview of waterward side. Two crossings, 10 inch and 8 inch pipelines, less than 5 feet apart.

LM Start	0.79	Rating **	C	Issue No.	65
LM End	0.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.275228 °	38.274872 °
				-121.602333 °	-121.602546 °
DWR ID	DWR_RD0501_04_f_2013_65				
Action/Comments					
Trees / Woody Vegetation					

No Photos

LM Start	0.99	Rating **	M	Issue No.	7
LM End	0.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.272733 °	38.272700 °
				-121.603940 °	-121.603953 °
DWR ID	DWR_RD0501_04_s_2012_7				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.04	Rating **	U	Issue No.	69
LM End	1.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.272053 °	38.272053 °
				-121.604176 °	-121.604176 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32549					
DS_ID:21072					
EP_NO: N/A					
FS_HLM: 1.06					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Pipe has deteriorated-holes present on landward side. Need to contact owner. Unable to determine if crossing is still being used. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances.					
FIELD_STRUCT_DESC: Abandoned 8-inch steel pipe through the levee, 2.7 feet below the crown. Pump on waterward side. Steel plate welded on waterward end. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.10).					
FS Date: 06/13/2013					

LM Start	1.04	Rating **	U	Issue No.	69 (cont)
LM End	1.04	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_3540.jpg



High vegetation along waterward side.

Photo 2 of 3 : UCIP_FA_2015_3541.jpg



View of levee crown at crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.04	Rating **	U	Issue No.	69 (cont)	
LM End	1.04	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.272053 °	38.272053	
				-121.604176 °	-121.604176	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32549						
DS_ID:21072						
EP_NO: N/A						
FS_HLM: 1.06						
Repair Type: Urgent						
Crossing Status: Found						

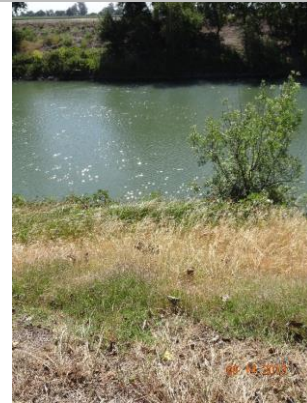
Photo 3 of 3 : UCIP_FA_2015_3542.jpg



View of levee crown at crossing.

LM Start	1.08	Rating **	M	Issue No.	70
LM End	1.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.271400 °	38.271400 °
				-121.604368 °	-121.604368 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32550 DS_ID:21073 EP_NO: N/A FS_HLM: 1.11 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if the pipe goes through the levee. need As-Built drawings; Need owner information. FIELD_STRUCT_DESC: 1.5-inch conduit through the levee, 2.0 feet below the crown. Pole and anchor on landward slope. FS Date: 06/13/2013					

Photo 1 of 3 : UCIP_FA_2015_3543.jpg



View of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.08	Rating **	M	Issue No.	70 (cont)
LM End	1.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.271400 °	38.271400 °
				-121.604368 °	-121.604368 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32550 DS_ID:21073 EP_NO: N/A FS_HLM: 1.11 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Unable to determine if the pipe goes through the levee. need As-Built drawings; Need owner information. FIELD_STRUCT_DESC: 1.5-inch conduit through the levee, 2.0 feet below the crown. Pole and anchor on landward slope. FS Date: 06/13/2013					

LM Start	1.08	Rating **	M	Issue No.	70 (cont)
LM End	1.08	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_3544.jpg



Levee crown at crossing.

Photo 3 of 3 : UCIP_FA_2015_3545.jpg



View of landward side--power pole and guy wire under trees.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.17	Rating **	M	Issue No.	71
LM End	1.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270171 °	38.270171 °
				-121.604403 °	-121.604403 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32551					
DS_ID:21074					
EP_NO: N/A					
FS_HLM: 1.197					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	1.17	Rating **	M	Issue No.	71 (cont)
LM End	1.17	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_3546.jpg



View of levee crown at crossing.

Photo 2 of 3 : UCIP_FA_2015_3547.jpg



View of landward side--power pole on slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.17	Rating **	M	Issue No.	71 (cont)
LM End	1.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270171 °	38.270171 °
				-121.604403 °	-121.604403 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32551					
DS_ID:21074					
EP_NO: N/A					
FS_HLM: 1.197					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_3548.jpg



Abandoned pipe to the right of walkway.

LM Start	1.17	Rating **	M	Issue No.	72
LM End	1.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270156 °	38.270156 °
				-121.604403 °	-121.604403 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32552 DS_ID:21095 EP_NO: 13983 FS_HLM: 1.2 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned pipe was to be removed during the installation of new 12-inch pipe crossing. Need to contact pipe owner. Unable to confirm crossing--need additional records for crossing. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump on pile structure in stream. Service pole on landward slope. Pipe connects to 10-inch steel pipe along the landward slope at the shoulder, and similarly to pre-existing 8-inch pipe on the watereward side. (Permit No. 13983-1985) FS Date: 06/13/2013					

Photo 1 of 3 : UCIP_FA_2015_3549.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

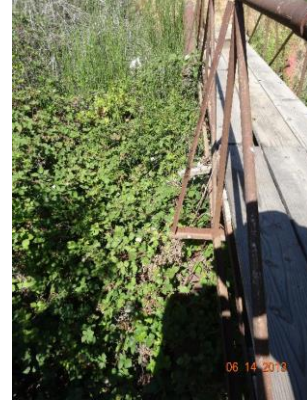
Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.17	Rating **	M	Issue No.	72 (cont)
LM End	1.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.270156 °	38.270156 °
				-121.604403 °	-121.604403 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32552 DS_ID:21095 EP_NO: 13983 FS_HLM: 1.2 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned pipe was to be removed during the installation of new 12-inch pipe crossing. Need to contact pipe owner. Unable to confirm crossing--need additional records for crossing. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown. Cutoff wall around pipe at center of levee. Siphon breaker on apex of pipe at landward shoulder. Pump on pile structure in stream. Service pole on landward slope. Pipe connects to 10-inch steel pipe along the landward slope at the shoulder, and similarly to pre-existing 8-inch pipe on the watereward side. (Permit No. 13983-1985) FS Date: 06/13/2013					

LM Start	1.17	Rating **	M	Issue No.	72 (cont)
LM End	1.17	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP_FA_2015_3550.jpg



Pipe suspended on waterward side along walkway.

Photo 3 of 3 : UCIP_FA_2015_3551.jpg



View of waterward side--walkway, pump, conduit, and pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.74	Rating **	M	Issue No.	73
LM End	1.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.262165 °	38.262165 °
				-121.601691 °	-121.601691 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44471					
DS_ID:21076					
EP_NO: 16906					
FS_HLM: 1.775					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	1.74	Rating **	M	Issue No.	73 (cont)
LM End	1.74	Issue Type +	En	Location *	LS

Photo 1 of 4 : UCIP_FA_2015_1738.jpg



Waterward side-pipe along slope.

Photo 2 of 4 : UCIP_FA_2015_1739.jpg



Waterward side-pipe lined through levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.74	Rating **	M	Issue No.	73 (cont)
LM End	1.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.262165 °	38.262165 °
				-121.601691 °	-121.601691 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44471					
DS_ID:21076					
EP_NO: 16906					
FS_HLM: 1.775					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	1.74	Rating **	M	Issue No.	73 (cont)
LM End	1.74	Issue Type +	En	Location *	LS

Photo 3 of 4 : UCIP_FA_2015_1740.jpg



Pipe section reduced at the waterward side daylight.

Photo 4 of 4 : UCIP_FA_2015_1741.jpg



Overview of waterward side.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.80	Rating **	M	Issue No.	8
LM End	1.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261283 °	38.261032 °
				-121.601488 °	-121.601635 °
DWR ID	DWR_RD0501_04_s_2012_8				
Action/Comments					
Landscaping					

No Photos

LM Start	1.86	Rating **	M	Issue No.	74
LM End	1.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.260407 °	38.260407 °
				-121.601365 °	-121.601365 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32553 DS_ID:21077 EP_NO: N/A FS_HLM: 1.9 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown. 2 inch conduit goes through levee. Siphon breaker on landward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0). FS Date: 06/13/2013					

Photo 1 of 3 : UCIP_FA_2015_3552.jpg



Waterward side--catwalk, conduit line, pump, and support piles.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	1.86	Rating **	M	Issue No.	74 (cont)
LM End	1.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.260407 °	38.260407 °
				-121.601365 °	-121.601365 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32553 DS_ID:21077 EP_NO: N/A FS_HLM: 1.9 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward and landward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown. 2 inch conduit goes through levee. Siphon breaker on landward slope. Pump on pile structure in stream. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.0). FS Date: 06/13/2013					

Photo 2 of 3 : UCIP_FA_2015_3553.jpg



View of waterward side.

Photo 3 of 3 : UCIP_FA_2015_3554.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.15	Rating **	M	Issue No.	13
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.256275 °	38.255990 °
				-121.600933 °	-121.601015 °
DWR ID	DWR_RD0501_04_s _ 2012_13				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.16	Rating **	M	Issue No.	75
LM End	2.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.256225 °	38.256225 °
				-121.600903 °	-121.600903 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:32863 DS_ID:21078 EP_NO: N/A FS_HLM: 2.19 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Broken concrete box on landward slope. Disturbed soil on waterward slope--unable to determine section disturbed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterward slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: Abandoned 6-inch and working 6-inch steel pipes through the levee, 2.5 and 5.0 feet below the crown, respectively. 1.5 inch electrical conduit through levee. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.30). Pipes are within 5 feet. FS Date: 06/13/2013					

Photo 1 of 3 : UCIP_FA_2015_3926.jpg



View of waterward side--conduit, pump, control panel, and pipe. Soil piled on right corner of photo--excavation?

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.16	Rating **	M	Issue No.	75 (cont)	
LM End	2.16	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.256225 °	38.256225 °	
				-121.600903 °	-121.600903 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32863 DS_ID:21078 EP_NO: N/A FS_HLM: 2.19 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Broken concrete box on landward slope. Disturbed soil on waterward slope--unable to determine section disturbed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterwar slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: Abandoned 6-inch and working 6-inch steel pipes through the levee, 2.5 and 5.0 feet below the crown, respectively. 1.5 inch electrical conduit through levee. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.30). Pipes are within 5 feet. FS Date: 06/13/2013						

Photo 2 of 3 : UCIP_FA_2015_3961.jpg



View of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	10/01/2015 10/01/2015	Herman Phillips

LM Start	2.16	Rating **	M	Issue No.	75 (cont)	
LM End	2.16	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			38.256225 °	38.256225 °	
				-121.600903 °	-121.600903 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:32863 DS_ID:21078 EP_NO: N/A FS_HLM: 2.19 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Broken concrete box on landward slope. Disturbed soil on waterward slope--unable to determine section disturbed. Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the waterwar slope. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. FIELD_STRUCT_DESC: Abandoned 6-inch and working 6-inch steel pipes through the levee, 2.5 and 5.0 feet below the crown, respectively. 1.5 inch electrical conduit through levee. Pump in pump house on waterward slope. (USACE-1959). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.30). Pipes are within 5 feet. FS Date: 06/13/2013						

Photo 3 of 3 : UCIP_FA_2015_3962.jpg



View of waterward side with dense vegetation along slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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